Pioneer *sound.vision.soul*

Stereo DVD Tuner Deck

XV-EV51
XV-EV21

Stereo Power Amplifier

M-EV51
M-EV21

Speaker System

S-EV51V
S-EV21V

Operating Instructions

CONGRATULATIONS ON YOUR PURCHASE OF THIS FINE PIONEER PRODUCT.

Pioneer is on the leading edge of DVD research for consumer products and this unit incorporates the latest technological developments.
We are sure you will be fully satisfied with the DVD player.
Thank you for your support.

IMPORTANT

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

H002_En

WARNING: THE APPARATUS IS NOT WATERPROOFS, TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPARUTUS TO RAIN OR MOISTURE AND DO NOT PUT ANY WATER SOURCE NEAR THIS APPARATUS, SUCH AS VASE, FLOWER POT, COSMETICS CONTAINER AND MEDICINE BOTTLE ETC. **H001A_En**

Recording equipment and copyright:
Recording equipment should be used only for lawful copying and you are advised to check carefully what is lawful copying in the country in which you are making a copy. Copying of copyright material such as films or music is unlawful unless permitted by a legal exception or consented to by the rightowners.

H067_En

WARNING: BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY. THE VOLTAGE OF THE AVAILABLE POWER SUPPLY DIFFERS ACCORDING TO COUNTRY OR REGION. BE SURE THAT THE POWER SUPPLY VOLTAGE OF THE AREA WHERE THIS UNIT WILL BE USED MEETS THE REQUIRED VOLTAGE (E.G., 230V OR 120V) WRITTEN ON THE REAR PANEL.

H041A_En

WARNING: NO NAKED FLAME SOURCES, SUCH AS LIGHTED CANDLE, SHOULD BE PLACED ON THE APPARATUS. IF NAKED FLAME SOURCES ACCIDENTALLY FALL DOWN, FIRE SPREAD OVER THE APPARATUS THEN MAY CAUSE FIRE.

H044_En

CAUTION
This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.
Refer all servicing to qualified personnel.

The following caution label appears on your unit.

Location: rear of the unit

CLASS 1
LASER PRODUCT

H018A_En

On the bonnet of the unit

CAUTION	: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
VORSICHT	: SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENNABDECKUNG GEÖFFNET : NICHT DEM STRAHL AUSSETZEN!
ADVARSEL	: SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARNING	: SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRAKTA EJ STRÅLEN.
VARO!	: AVATTAESSA ALTISTUT NÄKYVÄ JA NÄKYMÄTTÖMÄLLE LASERSATEIL YLLE. ÄLÄ KATSO SÄTEESEN.
CUIDADO	: RADIACIÓN LÁSER VISIBLE E INVISIBLE AL ESTAR ABIERTO. EVITAR EXPOSICIÓN AL RAYO.

VRW1872

This product complies with the Low Voltage Directive (73/23/EEC, amended by 93/68/EEC), EMC Directives (89/336/EEC, amended by 92/31/EEC and 93/68/EEC). **H015AEn**

Operating Environment **H045_En**

Operating environment temperature and humidity:
+5°C – +35°C (+41°F – +95°F); less than 85%RH (cooling vents not blocked)
Do not install in the following locations
- Location exposed to direct sunlight or strong artificial light
- Location exposed to high humidity, or poorly ventilated location

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help. **H010_En**

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment. **H011_En**

CAUTION:

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections. **H012_En**

CAUTION

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The use of optical instruments with this product will increase eye hazard. **H013_En**

CAUTION: THE STANDBY/ON BUTTON IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION. therefore install the unit suitable places easy to disconnect the MAINS plug in case of the accident. The MAINS plug of unit should be unplugged from the wall socket when left unused for a long period of time. **H017B_En**

VENTILATION: When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation (at least 30 cm at top, 15 cm at rear, and 15 cm at each side).

WARNING: Slot and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, to prevent fire hazard, the openings should never be blocked and covered with items, such as newspapers, table-cloths, curtains, etc. Also do not put the apparatus on the thick carpet, bed, sofa, or fabric having a thick pile. **H040 En**

Energy-saving design

This system is designed to use 1W of electricity when power is switched to Standby.

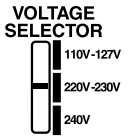
CAUTION: The POWER switch does not completely separates the unit from the MAINS in off position, therefore install the unit suitable places easy to disconnect the MAINS plug in case of the accident. The MAINS plug of unit should be unplugged from the wall socket when left unused for a long period of time. **H046 En**

CAUTION: These speaker terminals can be under HAZARDOUS VOLTAGE. When you connect or disconnect the speaker cables, to prevent the risk of electric shock, do not touch uninsulated parts before disconnecting the power cord. **H047 En**

VOLTAGE SELECTOR SWITCH

The line voltage selector switch is located on the rear panel. Check that it is set properly before plugging the power cord into the outlet. If the voltage is not properly set, or if you move to an area where the voltage requirements differ, adjust the selector switch as follows:

1. Make sure the power cord is disconnected.
2. Insert a small-sized screwdriver into the groove on the voltage selector, and adjust the VOLTAGE SELECTOR.



CAUTION 220-230 V

Power source voltage is factory adjusted at 220-230 volts. If your area is different, change the voltage selector's setting. **H039En**

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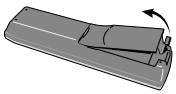
What's in the box

Thank you for buying this Pioneer product. Please confirm that the following accessories are in the box when you open it.

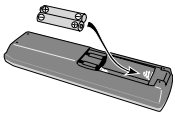
- Remote control
- Power cord
  x 2 (Australian, New Zealand, Central and South American models only)
  x1 (all other models)
- Power plug adapter (excluding Singapore, Hong Kong and Malaysian models)
- Video cord
- System cables x2 (EV51DVD)
  x1 (EV21DVD)
- AM loop antenna
- FM antenna
- Dry cell batteries (AA/R6P) x2
- These operating instructions x2

Putting the batteries in the remote control

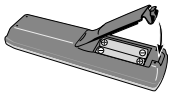
1 Open the battery compartment cover on the back of the remote control.



2 Insert two AA/R6P batteries into the battery compartment following the indications (⊕, ⊖) inside the compartment.



3 Close the cover.



Note

Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:

- Don't mix new and old batteries together.
- Don't use different kinds of battery together—although they may look similar, different batteries may have different voltages.
- Make sure that the plus and minus ends of each battery match the indications in the battery compartment.
- Remove batteries from equipment that isn't going to be used for a month or more.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.

H048 En

Using the remote control

Keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote and the remote sensor on the unit.
- The remote has a range of about 7 meters (23ft.)
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the unit's remote sensor.
- Remote controllers for different devices can interfere with each other. Avoid using remotes for other equipment located close to this unit.
- Replace the batteries when you notice a fall off in the operating range of the remote.

General disc compatibility

This player was designed and engineered to be compatible with software bearing one or more of the following logos.

DVD-Video

Audio CD Video CD CD-R CD-RW

Other formats, including but not limited to the following, are not playable in this player:

- **DVD-Audio, SACD, Photo CD, DVD-RAM, DVD-ROM, CD-ROM*** (except those that contain MP3 files formatted as specified in the *MP3 audio compatibility* section)

Note

- DVD-R/RW and CD-R/RW discs (Audio CDs and Video CDs) recorded using a DVD recorder, CD recorder or personal computer may not be playable on this unit. This may be caused by a number of possibilities, including but not limited to: the type of disc used; the type of recording; damage, dirt or condensation on either the disc or the player's pick-up lens.

CD-R/RW compatibility

- This unit will play CD-R and CD-RW discs recorded in CD Audio or Video CD format, or as a CD-ROM containing MP3 audio files. However, any other content may cause the disc not to play, or create noise/distortion in the output.
- This unit cannot record CD-R or CD-RW discs
- Unfinalized CD-R/RW discs recorded as CD Audio can be played, but the full Table of Contents (playing time, etc.) will not be displayed.

DVD-R/RW compatibility

- This unit will play DVD-R/RW discs that were recorded using the DVD Video format.
- This unit will not play DVD-RW discs that were recorded using the Video Recording format.
- This unit cannot record DVD-R/RW discs
- Unfinalized DVD-R/RW discs cannot be played in this player.

PC-created disc compatibility

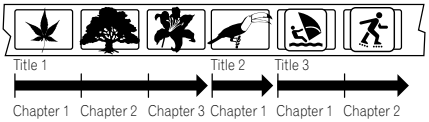
- If you record a disc using a personal computer, even if it is recorded in a compatible format as listed above, there will be cases in which the disc may not be playable in this machine due to the setting of the application software used to create the disc. In these particular instances, check with the software publisher for more detailed information.
- Check the DVD-R/RW or CD-R/RW software disc boxes for additional compatibility information.

MP3 audio compatibility

- This unit will play CD-ROM discs containing files saved in the MPEG-1 Audio Layer 3 format (MP3) with a smapling rate of 32, 44.1 or 48kHz. Incompatible files will not play and "UNPLAYABLE" will be displayed on the unit.
- Fixed bit-rate files are recommended. Variable bit-rate (VBR) files are playable, but playing time may not be shown correctly.
- The CD-ROM used to compile your MP3 files must be ISO 9660 Level 2 compliant.
- CD physical format: Mode1, Mode2 XA Form1.
- This player only plays tracks that are named with the file extension ".mp3" or ".MP3"
- This player is not compatible with multi-session discs. If you try and play a multi-session disc, only the first session will be played.
- Use CD-R or CD-RW media for recording your MP3 files. The disc must be finalized in order to play in this unit.
- This player can recognize a maximum of 250 folders and 250 tracks. Discs containing more than 250 folders or 250 tracks will play, but only the first 250 folders / tracks.
- Folder and track names (excluding the ".mp3" extension) are displayed.
- There are many different recording bit-rates available to encode your MP3 files. This unit was designed to be compatible with all of them. Audio encoded at 128Kbps should sound close to regular CD Audio quality. This player will play lower bit-rate MP3 tracks, but please note that the sound quality becomes noticeably worse at lower bit-rates.

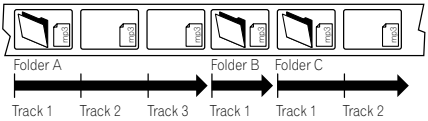
Titles, chapters and tracks

DVD discs are generally divided into one or more titles. Titles may be further subdivided into chapters.



CDs and Video CDs are divided into tracks.

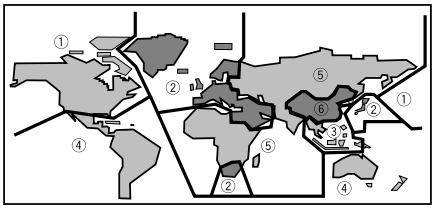
CD-ROMs containing MP3 files are divided into folders and tracks. Folders may also contain further subfolders.



DVD Video regions

All DVD Video discs carry a region mark on the case somewhere that indicates which region(s) of the world the disc is compatible with. Your DVD player also has a region mark, which you can find on the rear panel. Discs from incompatible regions will not play in this player. Discs marked **ALL** will play in any player.

The diagram below shows the various DVD regions of the world.



Important

Before making or changing any rear panel connections, make sure that all the components are switched off and unplugged from the power supply.

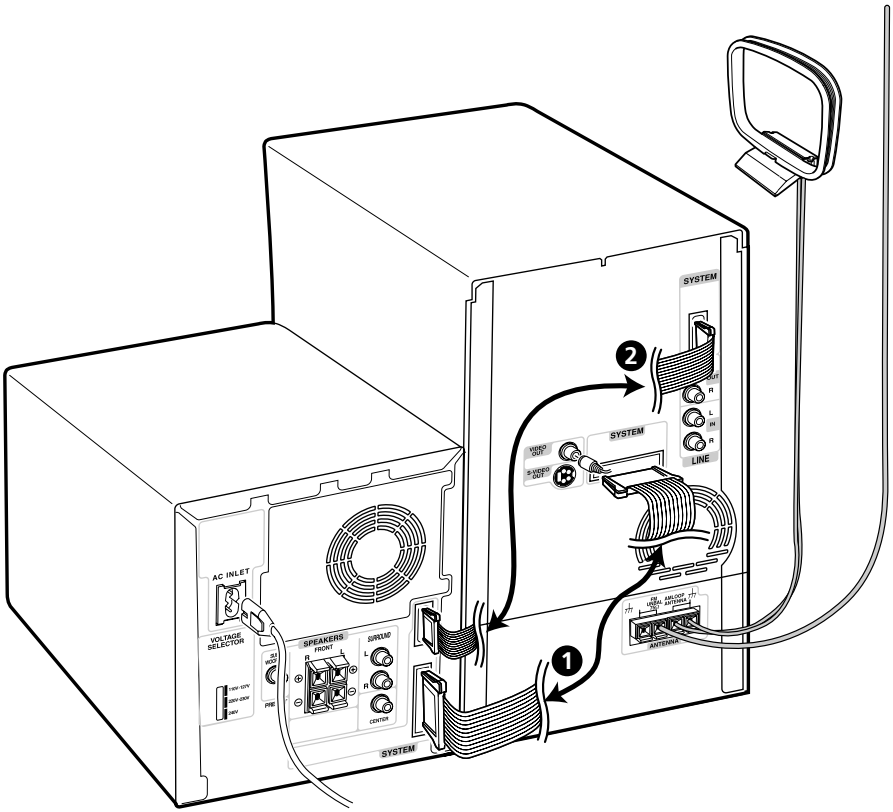
Connecting the system components

Connect the amplifier to the DVD tuner deck for audio and also to provide power to the system.

1 Use the supplied 20-pin system cable to connect the SYSTEM jack on the DVD tuner deck to the SYSTEM jack on the power amplifier.
The jacks are located on the rear panel. Make sure the 20-pin system cable is inserted completely.

EV51DVD model only:

2 Use the supplied 8-pin system power cable to connect the upper SYSTEM jack on the DVD tuner deck to the upper SYSTEM jack on the power amplifier.
Connect the cable the same way you connected in step 1.



Connecting the speakers

Caution

Do not connect any of the supplied speakers to any other amplifier. This may result in malfunction or fire.

Note

These speakers are magnetically shielded. However, depending on the installation location, color distortion may occur if the speaker system is installed extremely close to the screen of a television set. If this happens, turn off the television set, and then turn it on after 15 to 30 minutes. If the problem persists, move the speaker system away from the television set.

Connecting the front speakers

To get the best sound from the system, it's important that you connect the two speaker cords attached to each front speaker to the correct speaker terminals on the unit. The terminals and cords are color-coded to help you match them up.

- **Connect the front speakers to the amplifier as shown below.**

Use the attached red and black speaker cords.

Important

Make sure that the bare speaker wires cannot touch each other, or come into contact with other metal parts once the unit is switched on.

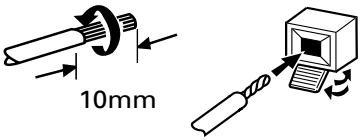
Connecting the front speaker cables

This is shown in the diagrams below.

1 Pull off the protective covers on the ends of each cord, then twist the exposed wire strands together.

2 Push the tab to open, then insert the twisted wire fully into the terminal.

3 Release the tab to secure the speaker cord.



Connecting the center speaker

- **Connect the center speaker to the amplifier.**

Use the attached RCA pin-plug speaker cord. Insert completely.

Connecting the surround speakers

EV51DVD model only

Connect the left and right surround speakers for multi-channel surround sound.

- **Connect the left and right surround speakers to the rear of the amplifier.** Use the attached RCA pin-plug speaker cords. Insert completely.

Hints on speaker placement

The following guidelines will help you to get the best performance from your speaker system.

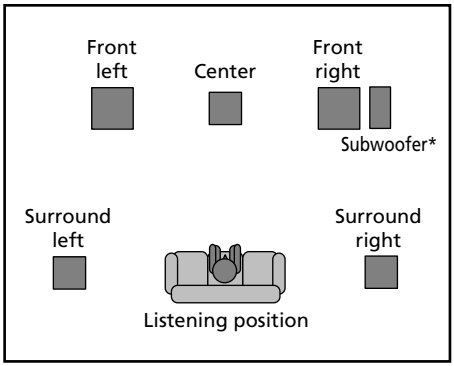
- Place the front left and right speakers at equal distances from the TV.
- Place the center speaker above or below the TV so that the sound of the center channel is localized at the TV screen.

Caution

- If you choose to install the center speaker on top of the TV, be sure to secure it with putty, or by other suitable means, to reduce the risk of damage or injury resulting from the speaker falling from the TV in the event of external shocks such as earthquakes.
- If possible, place the surround speakers slightly above ear level.
- Try not to place the surround speakers further away from the listening position than the front and center speakers. Doing so can weaken the surround sound effect.
- To achieve the best possible surround sound, install your speakers as shown below. Be sure all speakers are installed securely to prevent accidents and improve sound quality.

Overhead view of speakers

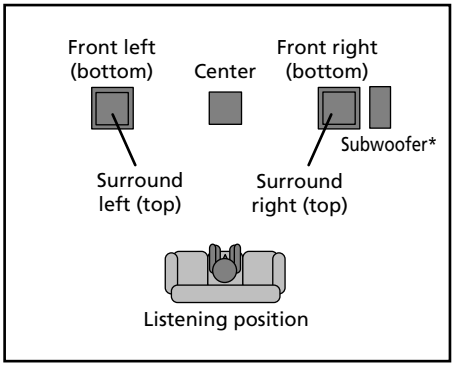
Basic surround sound setup



***** *Active subwoofer is sold separately*

Extra power mode sound setup
EV51DVD model only

See page 62 for more details on this setting.



***** *Active subwoofer is sold separately*

Connecting a subwoofer

EV51DVD model only

An active subwoofer (sold separately) provides bass frequencies that are both deeper and clearer than regular speakers.

Note

- If you plan to use a subwoofer with this system, make sure it is a powered subwoofer (not passive).

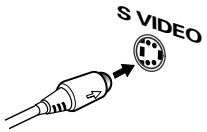
- **Connect the subwoofer to the amplifier.**

Use an RCA pin-plug speaker cord. Insert completely.

Connecting to your TV

1 Use the supplied yellow video cable to connect the VIDEO OUT jack to a video input on your TV.

For a better image, you can also use a commercially available S-Video cable to connect the **S-VIDEO OUT** jack to an S-Video input on your TV.



2 Optionally: Use a stereo audio cable to connect the audio outs of your TV (or VCR) to the LINE IN jacks on the rear of the DVD tuner deck.

This will enable you to hear the TV (or VCR) sound through this system.

Connecting the radio antennas

Connecting the supplied antennas will allow you to listen to both AM and FM radio broadcasts. If you find that reception quality is poor, an outdoor antenna should give you better sound quality—see Connecting external antennas on the next page for more on how to do this.

Important

- Before making or changing antenna connections, make sure that the power is switched off and the unit disconnected from the wall power outlet.

1 Pull off the protective shields of both AM antenna wires.

2 Push open the tabs, then insert one wire fully into each terminal.

3 Release the tabs to secure the AM antenna wires.

4 Fix the AM loop antenna to the attached stand.

To fix the stand to the antenna, bend in the direction indicated by the arrow (*fig. a*) then clip the loop onto the stand (*fig. b*).

Note

- If you plan to mount the AM antenna to a wall or other surface, secure the stand with screws (*fig. c*) before clipping the loop to the stand. Make sure the reception is clear.

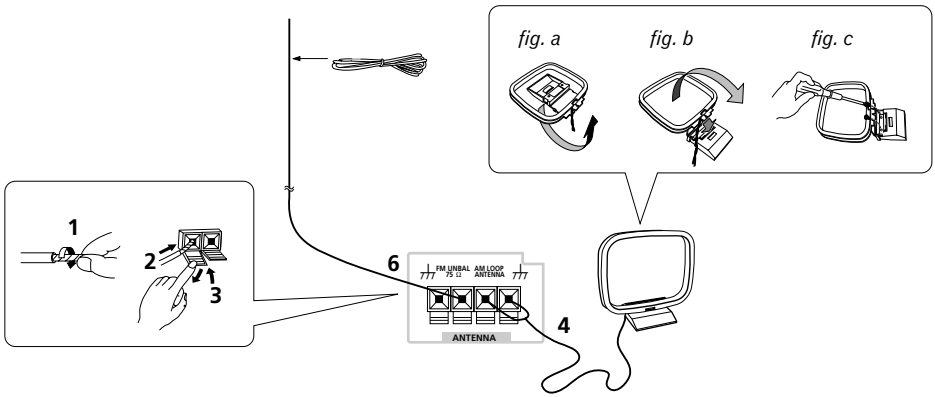
5 Place the AM antenna on a flat surface and point in the direction giving the best reception.

Don't let it come into contact with metal objects and avoid placing near computers, television sets or other electrical appliances.

6 Connect the FM wire antenna in the same way as the AM loop antenna.

For best results, extend the FM antenna fully and fix to a wall or door frame. Don't drape loosely or leave coiled up.

The supplied FM antenna is a simple means of receiving FM stations; using a dedicated, outdoor FM antenna will usually give you better reception and sound quality. See *Connecting external antennas* on the next page for connection details.



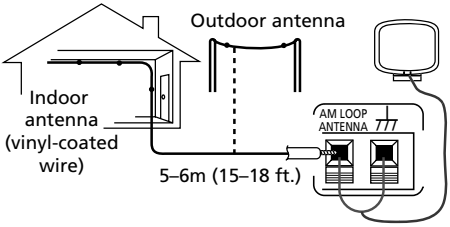
Note

- The signal ground (⏚) is designed to reduce noise that occurs when an antenna is connected. It is not an electrical safety ground.

Connecting external antennas

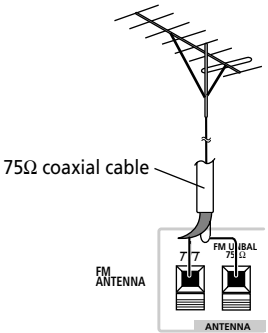
External AM antenna

Use 5–6 meters of vinyl-insulated wire and set up either indoors or outdoors. Leave the AM loop antenna connected.



External FM antenna

Use 75Ω coaxial cable to hook up an external FM antenna.



Connecting auxiliary components

This system has both stereo analog inputs and outputs. Use these to connect external components, such as a VCR, MD, CD-R or DAT recorder.

- **Connect the LINE IN jacks on the rear panel to an auxiliary playback component.**

These include components such as a VCR, DAT, or your TV. Connect using RCA pin-plug stereo cables.

- **Connect the LINE OUT jacks on the rear panel to a recording component.**

These include components such as a cassette deck, VCR, MD recorder, or another recorder with analog inputs. Connect using RCA pin-plug stereo cables.

Note

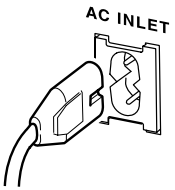
- DTS sources cannot be heard through the **LINE OUT** jacks.

Connecting the power

After making sure that everything is connected properly, plug in the power cord to the AC inlet, and the other end to a mains power outlet.

Important

- If your model has a voltage selector switch (located at the bottom of the AC inlet), make sure it is set to match the voltage of your country or region (see page 3 for more on this).



Congratulations! You're done setting up.

Front panel

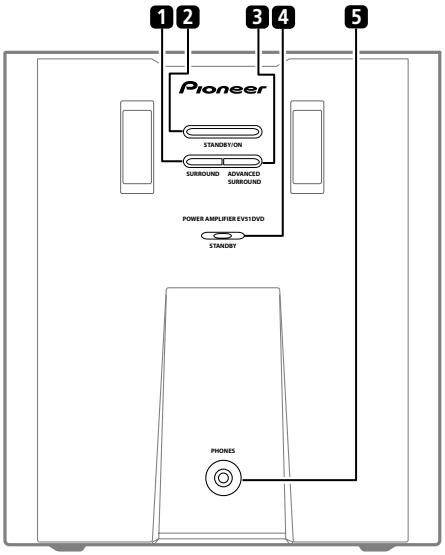
Note

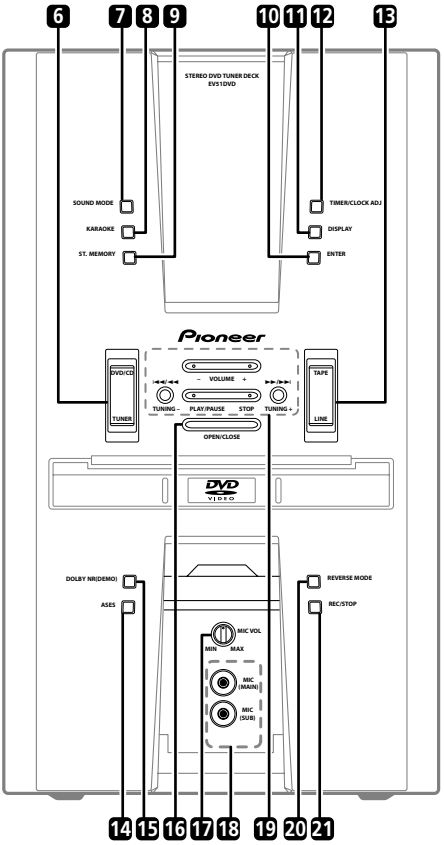
The front panel controls for the EV51DVD model are shown in the illustrations below.

1 SURROUND *(EV51DVD model)*
Selects a surround listening mode (page 63)

SFC *(EV21DVD model)*
Selects sound modes or custom settings from the Sound Field Control (page 66)

2 STANDBY/ON
Switches the player on or into standby





3 ADVANCED SURROUND *(EV51DVD model)*
Selects an advanced listening mode (page 64)

CENTER SP (**ON/OFF**) *(EV21DVD model)*
Switches the center speaker on or off (page 66)

4 STANDBY indicator
Lights when the system is in standby

5 PHONES jack
Headphone jack

6 DVD/CD and TUNER select button
Press to select the source you want to listen to

7 SOUND MODE
Adjusts the tone, balance and (EV51DVD model only) DSP controls (pages 65–66)

8 KARAOKE *(EV51DVD model)*
Selects audio channels for karaoke (page 60)

VIRTUAL SURROUND *(EV21DVD model)*
Switches the Virtual Surround effect on or off (pages 72–73)

9 ST. MEMORY
Use for saving and listening to station presets (page 52)

10 ENTER
Select an option or execute a command

11 DISPLAY
Changes the information shown in the display (pages 26, 50)

12 TIMER/CLOCK ADJ
Use for setting the clock, as well as for setting and checking the timers (pages 26, 68–71)

13 TAPE and LINE select button
Press to select the source you want to listen to

14 ASES
Press for CD-to-tape synchro recording (pages 57–58)

15 DOLBY NR (DEMO)
Switches Dolby Noise Reduction on or off (pages 54–57)

16 OPEN/CLOSE
Opens the disc tray

17 MIC VOL
Controls the volume of the karaoke mics

18 MIC input jacks

19 VOLUME, TUNING and playback control buttons
The **TUNING**/scan/skip buttons are used for tuning into stations, skipping or scanning tracks on discs or tapes. The playback control button is used for playing, pausing and stopping playback.

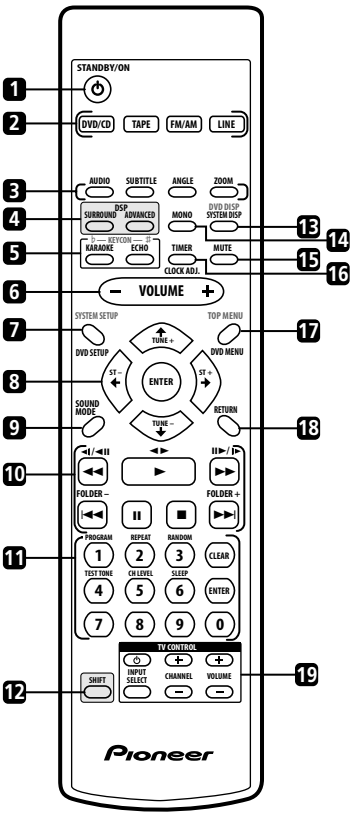
20 REVERSE MODE
Selects the playback mode for tapes (page 54)

21 REC/STOP
Starts/stops recording on the tape deck (page 57)

Remote control

Note

The remote control for the EV51DVD model is shown in the illustration below.



1 ⏻ STANDBY/ON
Switches the player on or into standby

2 Function select buttons
Selects the source you want to listen to

3 DVD control buttons

AUDIO
Selects the audio channel or language (page 48)

SUBTITLE
Selects a subtitle display (page 48)

ANGLE
Changes the camera angle during DVD multi-angle scene playback (page 49)

ZOOM
Changes the zoom level (page 48)

4 DSP buttons *(EV51DVD model)*

SURROUND
Selects a surround mode for multi-channel sound (page 63)

ADV. SURROUND
Selects a DSP mode for multi-channel sound (page 64)

Sound Field buttons *(EV21DVD model)*

SFC
Selects sound modes or custom settings from the Sound Field Control (page 66)

VIRTL. SURR.
Switches the Virtual Surround effect on or off (page 72–73)

5 KARAOKE buttons

KARAOKE
Selects audio channels for karaoke (page 60)

ECHO
Changes the echo level on the karaoke mics (page 61)

KEYCON (SHIFT+KARAOKE/ECHO)
Lowers/raises the pitch of the backing track (page 61)

6 VOLUME
Adjusts the volume level

7 DVD SETUP
Press to make DVD settings

SYSTEM SETUP (SHIFT+DVD SETUP)
(EV51DVD model)
Press to make DSP settings

8 ENTER, TUNE & cursor control buttons
Navigates on-screen displays and menus. **ENTER** selects an option or executes a command.

9 SOUND MODE
Adjusts the tone, balance and (EV51DVD model only) DSP controls (pages 65–66)

10 Playback controls

►
Starts/resumes playback

◄◄ and ◄I/◄II
Use for reverse slow motion playback, frame reverse and reverse scanning

►► and II►/I►
Use for forward slow motion playback, frame advance and forward scanning

I◄◄
Jumps to the beginning of the current chapter or track, then to previous chapters/tracks

►►I
Jumps to the next chapter or track

II
Pauses playback; press again to restart

■
Stops playback

11 Number buttons and SHIFT functions
The number buttons can be used for selecting tracks directly, the functions above the buttons are accessed by pressing **SHIFT** at the same time as the button.

PROGRAM (SHIFT+1)
Use to program/play a program list (pages 46–47)

REPEAT (SHIFT+2)
Selects a repeat play mode (pages 41–42)

RANDOM (SHIFT+3)
Selects a random play mode (pages 42–43)

TEST TONE (SHIFT+4)
(EV51DVD model only)
Outputs the test tone for speaker setup (page 36)

CH LEVEL (SHIFT+5)
(EV51DVD model only)
Press to adjust the speaker level (page 37)

SLEEP (SHIFT+6)
Switches the sleep timer on or off (page 69)

CLEAR
Clears an entry

ENTER
Selects menu options, etc. (works exactly the same as the **ENTER** button in 8 above)

12 SHIFT
Press to access the functions/commands written in green on the remote

13 SYSTEM DISP
Switches between information and clock displays (pages 26, 50)

DVD DISP (SHIFT+SYSTEM DISP)
Changes the information shown in the display (pages 49–50)

14 MONO
Press to listen to a stereo FM broadcast in mono (sound quality is usually improved) (page 51)

CENTER SP (SHIFT+MONO)
(EV21DVD model only)
Switches the center speaker on or off (page 66)

15 MUTE
Mutes the volume (page 67)

16 TIMER/CLOCK ADJ.
Use for setting the clock, as well as for setting and checking the timers (pages 26, 68–71)

17 DVD MENU
Displays the DVD menu (for CDs, Video CDs, and MP3 discs, the Disc Navigator screen appears)

TOP MENU (SHIFT+DVD MENU)
Displays the top menu of a DVD disc

18 RETURN
Press to return to a previous menu screen

19 TV CONTROL

Note

Refer to *Setting the remote to control your TV* on page 27 to use these controls with your TV.

⏻
Switches the TV on or into standby

INPUT SELECT
Switches the TV input

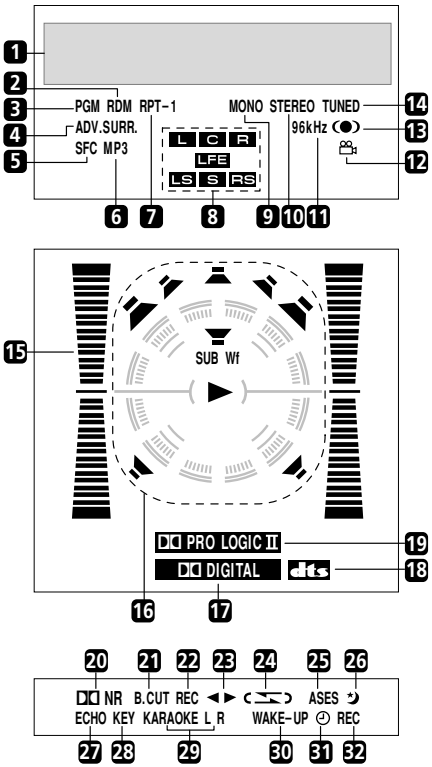
CHANNEL +/–
Selects channels

VOLUME +/–
Adjusts the volume on the TV

Display

Note

The front panel display for the EV51DVD model is shown in the illustration below.



1 Character display

2 RDM
Lights during random playback

3 PGM
Lights during program play

4 ADV. SURR. *(EV51DVD model only)*
Lights when one of the Advanced Surround listening modes is selected

5 SFC *(EV21DVD model only)*
Lights when one of the Sound Field Control listening modes is selected

6 MP3
Lights during playback of an MP3 disc

7 RPT-1
RPT lights during repeat play (**RPT-1** lights during repeat one-track play)

8 Format indicator *(EV51DVD model only)*
These indicators will light according to which channels are encoded on the Dolby Digital or DTS multi-channel disc currently in the player. **LFE** lights when the disc has an LFE channel.

9 MONO
Lights when FM mono reception is selected

10 STEREO
Lights when a stereo FM broadcast is being received in auto stereo mode

11 96 kHz
Lights when a 96kHz source is detected

(won't light if the source is copy–protected)

12
Lights during multi-angle scenes on a DVD disc

13 (●)
Lights when Virtual Surround is switched on

14 TUNED
Lights when a broadcast is being received

15 Level meter
Shows the level of the source selected

16 Speaker and playback indicators
The speaker indicators (🔊) show the speakers currently active. The playback indicator (►) lights during playback.

17 DIGITAL
This lights to indicate decoding of a Dolby Digital signal

18 DTS
This lights to indicate decoding of a DTS signal

19 PRO LOGIC II *(EV51DVD model only)*
This lights to indicate Prologic II decoding

20 NR
Lights when Dolby Noise Reduction is on

21 B.CUT
Lights when the beat cut mode has been switched to **B.CUT 2**

22 REC
Lights when recording to the tape deck

23 ◄►
Indicates the direction of tape playback

24
Indicates the reverse mode:

- – Single side playback
- – Auto-reverse playback: stops after finishing playback in the 'reverse' (◄) direction
- – Continuous playback (up to 16 complete plays)

25 ASES
Lights during ASES recording

26
Lights when the sleep timer is active

27 ECHO
Lights when the Karaoke **ECHO** effect is selected

28 KEY
Lights when the Karaoke pitch control is selected

29 KARAOKE L R
Lights when one of the Karaoke modes is selected:

- **KARAOKE** (Vocal cancel) – Vocals in the backing track are partially eliminated using EQ.
- **L** – Left channel only. Use for tracks that have a vocal recorded in the right channel.
- **R** – Right channel only. Use for tracks that have a vocal recorded in the left channel.
- **L R** – Use to put a a single-channel vocal track into the center of the mix.

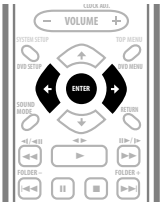
30 WAKE-UP
Lights in standby when the wake-up timer is set and flashes when the wake-up timer activates

31
Lights in standby when either timer is set and flashes when they activate

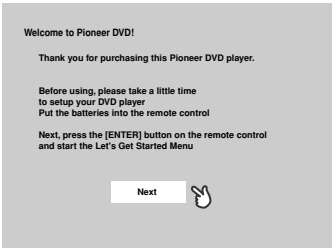
32 REC
Lights in standby when the record timer is set and flashes when the timer starts recording

Setting the unit to match your TV system

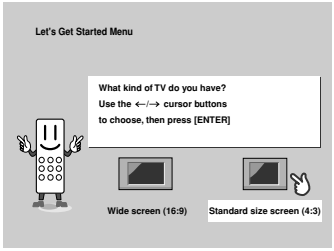
When you switch on the system for the first time, you should see a welcome screen displayed on your TV. From here you can set up the player to work with the kind of TV you have. After this, you can go to the next page to set the clock, or jump right in and start playing some discs.



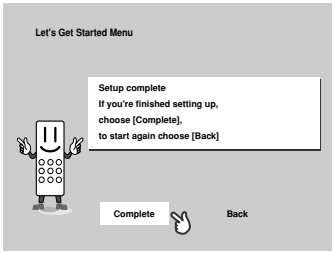
1 Press ENTER to move on to the next screen.


Welcome to Pioneer DVD!
Thank you for purchasing this Pioneer DVD player.
Before using, please take a little time
to setup your DVD player
Put the batteries into the remote control
Next, press the [ENTER] button on the remote control
and start the Let's Get Started Menu
Next

2 Use the ←/→ (cursor left/right) buttons to select either 'Wide screen' or 'Standard size screen' according to the kind of TV you have, then press ENTER.
See also *Screen sizes and disc formats* on page 89 if you're not sure which one to choose.


Let's Get Started Menu
What kind of TV do you have?
Use the ←/→ cursor buttons
to choose, then press [ENTER]
Wide screen (16:9)
Standard size screen (4:3)

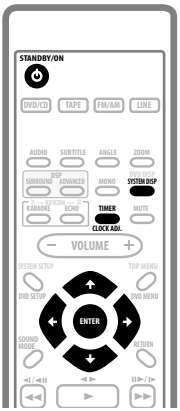
3 Press ENTER again to finish setting up.



- Select **BACK** then press **ENTER** if you want to go back and change the setting you just made.

Switching on and setting the clock

After setting the unit to match your TV system, the first thing to do is to set the clock. This only needs to be done once (unless all power to the unit is cut) and will enable you to use the timer features.



1 Press STANDBY/ON (⏻).

2 Press TIMER/CLOCK ADJ.

3 If CLK ADJ isn't already selected, use the ←/→ buttons to select it.
On the front panel use I◄◄/◄◄ and ▼ fl►►I .

4 Press ENTER.

5 Use the ↑/↓ buttons to set the hour.
On the front panel use I◄◄/◄◄ and ►►/►►I.

6 Press ENTER.

7 Use the ↑/↓ buttons to set the minute.
On the front panel use I◄◄/◄◄ and ►►/►►I.

8 Press ENTER to confirm.

Tip

- Press **DISPLAY** (**SYSTEM DISP** on the remote) anytime to cycle through display options to show the current time. See *Displaying disc information* on page 49–50 for more on this.

Changing the clock format

- Default setting: **12 HR**

You can choose to display the clock in either 12 or 24 hour formats.

1 Switch the system into standby.

2 Press ENTER.

3 Use the ←/→ buttons to select 12/24 HR.
On the front panel use I◄◄/◄◄ and ►►/►►I.

4 Press ENTER.
The current clock format is shown in the display.

5 Use the ↑/↓ buttons to select either 12 or 24 hour clock format.
On the front panel use I◄◄/◄◄ and ►►/►►I.

6 Press ENTER to confirm.

Setting up the remote to control your TV

You can set up the supplied remote to control your TV. Here's how to set it up.

1 Switch on your TV.

2 Find the name of the manufacturer of your TV in the Preset Code List on pages 90–91.

Next to each manufacturer is one or more three digit codes. These tell the remote what kind of TV you have.

If the name of the manufacturer of your TV does not appear in the table, you won't be able to set up this remote to control your TV. Note that there are also cases where the preset codes listed for a manufacturer in the table may not work for your TV.

3 Point the remote at your TV, hold down the CLEAR button, then enter the three digit code for your TV.

The remote transmits an on/off signal to the TV. If you've entered the correct code, your TV should switch off.

If your TV doesn't turn off, repeat the procedure using the next code in the list until your TV switches off successfully. Once set, you can then use the individual TV controls shown below.

Button	What it does
⏻	Switches your TV on or into standby.
CHANNEL +/–	Changes the TV channel.
VOLUME +/–	Adjusts the volume.
INPUT SELECT	Switches the TV's input between the built in TV tuner and an external video source.

Switching off the demo

This unit has an automatic demo feature that, when switched on, starts when the unit is plugged in. Here's how to turn it off:

1 Switch the system on.

2 Press DOLBY NR (DEMO) for about three seconds to switch the demo mode off.

Tip

- If the demo mode has previously been switched off, you can switch it on by switching the system into standby in step 1, then following step 2.

Using the on-screen displays

For ease of use, this player makes extensive use of graphical on-screen displays (OSDs). You should get used to the way these work as you'll need to use them when setting up the player, using some of the playback features, such as program play, and when making more advanced settings for audio and video.

All the screens are navigated in basically the same way, using the cursor buttons to change the highlighted item and pressing **ENTER** to select it.

Button	What it does
DVD SETUP	Display/exit the on-screen display
← ↑ ↓ →	Changes the highlighted menu item
ENTER	Selects the highlighted menu item (both **ENTER** buttons work in exactly the same way)
RETURN	Returns to the main menu without saving changes

Important

- Throughout this manual, 'Select' means use the cursor buttons to highlight an item on-screen, then press **ENTER**.

Tip

- The button guide at the bottom of every OSD screen shows you which buttons you'll need to use for that screen.

Playing discs

The basic playback controls for playing DVD, CD, Video CD and MP3 discs are covered here. Further functions are detailed in chapter 6.

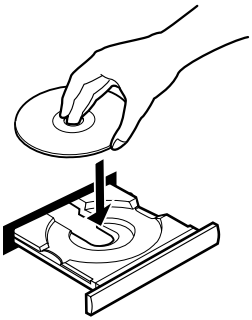
1 If the player isn't already on, press ⏻ STANDBY/ON to switch it on.

If you're playing a DVD or Video CD, also turn on your TV and make sure that it is set to the correct video input.

2 Press OPEN/CLOSE to open the disc tray.

3 Load a disc.

Load a disc with the label side facing up, using the disc tray guide to align the disc (if you're loading a double-sided DVD disc, load it with the side you want to play face down).



4 Press ► (play) to start playback.

If you're playing a DVD or Video CD, a menu may appear. See pages 31–32 for how to navigate these.

If you're playing an MP3 disc, it may take a few seconds before playback starts, depending on the complexity of the file structure on the disc.

FAQ

- *After I load a DVD disc, it ejects automatically after a few seconds!*

  Most likely, the disc is the wrong region for your player. The region number should be printed on the disc or disc packaging; check it against the region number of the player (which you can find on the rear panel). See also page 10.

  If the region number is OK, it may be that the disc is damaged or dirty. Clean the disc and look for signs of damage. See also page 82.

- *Why won't the disc I loaded play?*

  First check that you loaded the disc the right way up (label side up), and that it's clean and not damaged. See page 82 for information on cleaning discs.

  If a disc loaded correctly won't play, it's probably an incompatible format or disc type, such as DVD-Audio or DVD-ROM. See page 8 for more on disc compatibility.

- *I have a widescreen TV so why are there black bars at the top and bottom of the screen when I play some discs?*

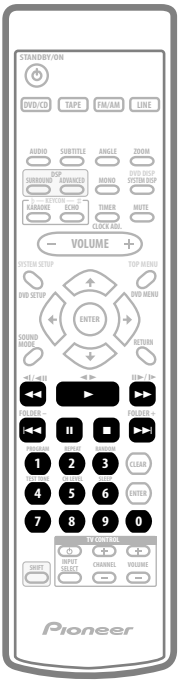
  Some movie formats are such that even when played on a widescreen TV, black bars are necessary at the top and bottom of the screen. This is not a malfunction.

- *I have a standard (4:3) TV and set the player to show widescreen DVDs in pan & scan format, so why do I still get black bars top and bottom with some discs?*

  Some discs override the display preferences of the player, so even if you have **4:3 (Pan & Scan)** selected, those discs will still be shown in letterbox format. This is not a malfunction.

Basic playback controls

The table below shows the basic controls on the remote for playing discs. The following chapter covers more playback features in more detail.

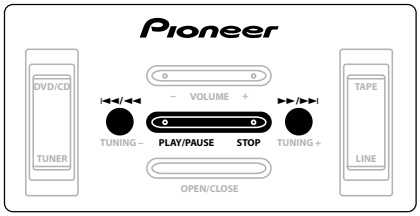


Button	What it does
►	Starts playback. If the display shows **RESUME**, playback starts from the resume point.
❚❚	Pauses a disc that's playing, or restarts a paused disc.
■	Stops playback. With most discs, the display shows **RESUME**. Press ■ again to cancel the resume function.
◄◄	Press to start fast reverse scanning. Press ► (play) to resume normal playback.
►►	Press to start fast forward scanning. Press ► (play) to resume normal playback.
⏮	Skips to the start of the current track or chapter, then to previous tracks/chapters.
⏭	Skips to the next track or chapter.
FOLDER +/- (**SHIFT**+ ⏮/⏭)	Skips to the next/previous folder when listening to an MP3 disc.
Numbers	• If the disc is stopped, playback starts from the selected title (for DVD) or track number (for CD/Video CD). • If the disc is playing, playback jumps to the start of the selected chapter or track.

Front panel controls

The **PLAY/PAUSE** and ■ (stop) buttons on the front panel work in exactly the same way as their remote control equivalents.

The combined scan/skip buttons on the front panel (|◄◄/◄◄ and ►►/►►|) work slightly differently from the remote buttons. Press and hold for fast scan; press for track/chapter skip.



Important

- You may find with some DVD discs that some playback controls don't work for certain parts of the disc. This is not a malfunction.

DVD-Video disc menus

Many DVD-Video discs contain menus from which you can select what you want to watch. They may give access to additional features, such as subtitle and audio language selection, or special features such as slideshows. See the disc packaging for details.

Sometimes DVD-Video menus are displayed automatically when you start playback; others only appear when you press **DVD MENU** or **TOP MENU**.

Button	What it does
TOP MENU (SHIFT+ DVD MENU)	Displays the 'top menu' of a DVD disc—this varies with the disc.
DVD MENU	Displays a DVD disc menu—this varies with the disc and may be the same as the 'top menu'.
← ↑ ↓ →	Moves the cursor around the screen.
ENTER	Selects the current menu option.
RETURN	Returns to the previously displayed menu screen.
Numbers	Highlights a numbered menu option (some discs only). Press **ENTER** to select.

Video CD PBC menus

Some Video CDs have menus from which you can choose what you want to watch. These are called PBC (Playback control) menus.

You can play a PBC Video CD without having to navigate the PBC menu by starting playback using a number button to select a track, rather than the ► (play) button.

Button	What it does
RETURN	Displays the PBC menu.
Numbers	Selects a numbered menu option.
⏮	Displays the previous menu page (if there is one).
⏭	Displays the next menu page (if there is one).

Listening to auxiliary components

After you have connected a source to the **LINE** jacks on the rear of the unit, you can listen to the auxiliary component(s) by pressing the **LINE** button.

- **Press the LINE button to listen to an auxiliary source.**

Tip

- If you find that the sound from the line input is distorting, or unusually loud, see *Reducing the source signal level* on page 59.

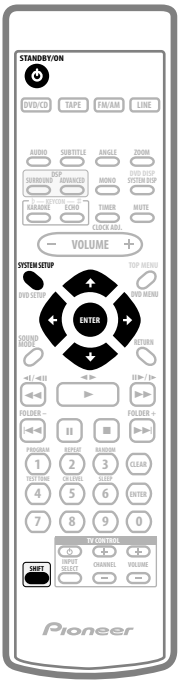
Automatic power on buttons

There are a number of buttons other than **STANDBY/ON** (⏻) which will switch the unit on. **DVD/CD**, **TUNER**, **TAPE**, and **LINE** switch the unit on directly into that function. (In the case of **DVD/CD** and **TAPE**, if there is a disc or tape loaded it will start playing.) The **OPEN/CLOSE** button switches the power on and opens the disc tray, and the **PLAY/PAUSE** (front panel) and ► (remote) buttons switch the unit on into the last function selected and start playback.

Choosing your surround sound settings

(EV51DVD only)

To get the best possible surround sound from your system, make the settings below. This is particularly important when using Dolby surround. You should only need to make these settings once (unless you change the placement of your speakers or wish to change one of the settings for a particular disc). Refer to the following pages for details on each of the settings.



1 Press STANDBY/ON (⏻) to turn the power on.

The **STANDBY** indicator goes out.

2 Press SYSTEM SETUP (SHIFT+DVD SETUP).

3 Use the ←/→ (cursor left/right) buttons to choose the option you want to adjust.

It is easiest to adjust each of the settings in turn, following the order below. The current setting is shown for each option as you cycle through the display.

Front speaker distance setting (page 34)
Specify the distance from the front speakers to the listening position.

Center speaker distance setting (page 34)
Specify the distance from the center speaker to your listening position.

Surround speaker distance setting (page 34)
Specify the distance from the surround speakers to your listening position.

Dynamic range control setting (page 34)
Compress the dynamic range of the sound track.

Dual mono setting (page 35)
Select the channel(s) you want to listen to from a dual mono disc.

LFE attenuator setting (page 35)
Specify the peak level for the LFE channel.

Subwoofer setting (page 35)
Specify how the subwoofer is used.

4 Use the ↑/↓ (cursor up/down) buttons to adjust the setting.

5 Repeat steps 3 and 4 to make other settings.

6 When you're done, press SYSTEM SETUP to exit.

Note

- The setting display is automatically exited after 20 seconds of inactivity.

Front speaker distance setting

- Default setting: **3.0 m**

• Use ↑/↓ to set the distance of the front speakers from your main listening position (within a 9 meter range).

Center speaker distance setting

- Default setting: **3.0 m**

• Use ↑/↓ to set the distance of the center speaker from your main listening position (within a 9 meter range).

Surround speaker distance setting

- Default setting: **3.0 m**

• Use ↑/↓ to set the distance of the surround speakers from your main listening position (within a 9 meter range).

Dynamic range control setting

- Default setting: **OFF**

Dynamic range is the difference between the loudest and softest sounds in any given signal. With this setting, you can compress the dynamic range of Dolby digital soundtracks so that low level sounds can be heard more easily (sounding relatively louder), yet louder sounds won't be too overbearing.

• Press ↑/↓ to set the dynamic range control (OFF, MID or HIGH).

Note

- When the volume level is increased, set to **OFF**.
- When listening at low volumes, set to **HIGH** for maximum dynamic range compression.
- Dynamic range control is effective only when a Dolby Digital signal is being played back.

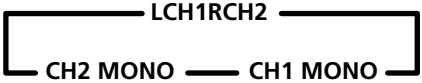
Dual mono setting

- Default setting: **LCH1RCH2**

The dual mono setting can only be used when listening to Dolby Digital discs with dual mono encoding. These discs are not widely used, but are sometimes used to separate the backing track from the vocals on karaoke discs. With this setting you can choose which channel in the dual mono setting you want to listen to.

You will hear the channel you have selected (either **CH1 MONO** or **CH2 MONO**) through your center speaker. If surround sound is switched off, you will hear the channel you have selected through both front speakers. In the **LCH1RCH2** setting, the left front speaker will play channel 1 and the right front speaker will play channel 2.

- **Use ↑/↓ to cycle through the possible dual mono settings.**



LFE attenuator setting

- Default setting: **0 dB**

Dolby Digital and DTS audio sources include ultra-low bass tones. Set the LFE attenuator as necessary to prevent the ultra-low bass tones from distorting the sound from the speakers.

- **Use ↑/↓ to set the attenuation level.**

Choose between the following options:

- **0dB** – No attenuation
- **10dB** – LFE volume is reduced
- **LFE OFF** – LFE channel is off

Subwoofer setting

- Default setting: **OFF**

If you have connected the active subwoofer (sold separately) you can choose to switch it on or off. Use the plus (**PLUS**) setting for extra bass.

- **Use ↑/↓ to select subwoofer OFF, ON or PLUS**

Setting the relative volume level of each channel

(EV51DVD only)

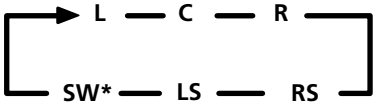
- Default setting: **0db**

For best surround sound playback, you should set the relative channel levels from your main listening position.

1 Press STANDBY/ON (⏻) to turn the power on.
The **STANDBY** indicator goes out.

2 Press SURROUND repeatedly to select a multi-channel listening mode.
The Surround mode can be set to anything but **AUTO** or **STEREO**.

3 Press TEST TONE (SHIFT+4) to hear the test tone.
The test tone is output in the following order:

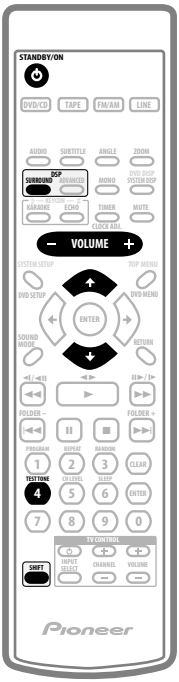


***** The test tone is only heard from the subwoofer when the subwoofer setting is **ON** or **PLUS** (see also *Subwoofer setting* on the previous page).

4 Press VOLUME +/– to adjust the volume to an appropriate level.

5 Use the ↑/↓ (cursor up/down) buttons to adjust the speaker levels in turn.
You should hear the test tone at the same volume from each speaker when seated in your main listening position. The channel level range is ± 10 dB.

6 When you're done, press TEST TONE (SHIFT+4) to turn off the test tone.



Tip

- The speaker volume can be adjusted while listening to any sound source you want by pressing **CH LEVEL** and then using the ↑/↓ (cursor up/down) buttons to adjust the channel levels. After you're finished with one channel, use the ←/→ (cursor left/right) buttons to move to the next.

Note

- The test tone can't be heard when the headphones are plugged in.
- The subwoofer only outputs sound when there is an LFE track on the DVD disc. Not all discs feature this track. This is not a malfunction.
- The test tone won't work if you have selected **AUTO**, **STEREO**, or any of the Advanced Surround modes.

Introduction

With most of the features described in this chapter, you can make use of on-screen displays (OSDs). For an explanation of how to navigate these, see *Using the on-screen displays* on page 28.

Many of the functions covered in this chapter apply to DVD discs, Video CDs and CDs, although the exact operation of some varies slightly with the kind of disc loaded. With CDs and MP3 discs, you can use the front panel display instead of the OSD for many features.

Some DVD discs restrict the use of some functions (random or repeat, for example). This is not a malfunction.

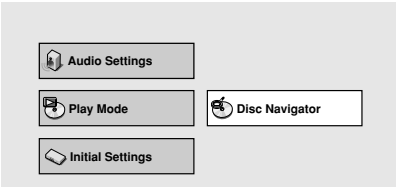
When playing Video CDs, some of the functions are not available during PBC playback. If you want to use them, start the disc playing using a number button to select a track.

Using the Disc Navigator to browse the contents of a disc

(Available only when using the OSD)

Use the Disc Navigator to browse through the contents of a disc to find the part you want to play.

1 Press DVD SETUP and select 'Disc Navigator' from the on-screen display.



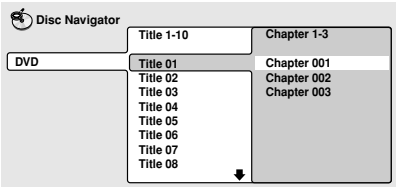
Note

- The **Audio Settings** option only appears with the EVA21DVD model.

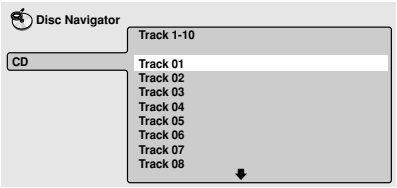
2 Select what you want to play.

Depending on the type of disc you have loaded, the Disc Navigator looks slightly different.

The screen for DVD discs shows the titles on the left and the chapters on the right. Select a title, or a chapter within a title.

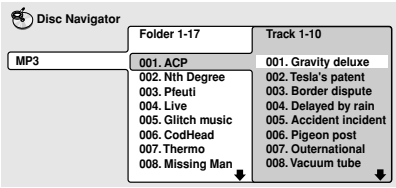


The screen for CDs and Video CDs shows a list of tracks.



The screen for an MP3 disc shows the folder names on the left and the track names on the right (note that if there are more than 16 folders, tracks and folders may show up with generic names – F_033, T_035, etc.).

Select a folder, or a track within a folder.



Playback starts after you press **ENTER.**

Tip

- The disc navigator is not available unless there is a disc loaded.
- Another way to find a particular place on a disc is to use one of the search modes. See *Searching a disc* on page 47.

Scanning discs

You can fast-scan discs forward or backward at various speeds. Use the remote control for multiple-speed scanning.

1 During playback, press ◄◄ or ►► (remote) to start scanning.

2 Press repeatedly to increase the scanning speed.

- The scanning speed is shown on-screen.

3 To resume normal playback, press ► (play).

Note

- On the front panel you can press and hold I◄◄/◄◄ or ►►/►►I once for single-speed scanning.
- Sound can be heard while scanning audio CDs and MP3 discs.
- MP3s scan at one speed only.
- There is no sound while scanning DVDs and Video CDs, and no subtitles while scanning DVDs.
- Depending on the disc, normal playback may automatically resume when a new chapter is reached on a DVD disc.

Playing in slow motion

You can play DVDs and Video CDs at four different forward slow motion speeds, and DVDs can also play at two reverse speeds.

1 During playback, press II (pause).

2 Press and hold ◄I/◄II or II►/I► until slow motion playback starts.

- The slow motion speed is shown on-screen.
- There is no sound during slow motion playback

3 Press repeatedly to change the slow motion speed.

- The slow motion speed is displayed on-screen.

4 To resume normal playback, press ► (play).

Note

- Video CD only supports forward slow motion playback.
- The picture quality during slow motion playback is not as good as during normal playback.
- Depending on the disc, normal playback may automatically resume when a new chapter is reached.

Frame advance/frame reverse

You can advance or back up a DVD disc frame-by-frame. With Video CDs, you can only use frame advance.

1 During playback, press II (pause).

2 Press ◄I/◄II or II►/I► to reverse or advance a frame at a time.

3 To resume normal playback, press ► (play).

Note

- The picture quality when using frame reverse is not as good as frame advance.
- Depending on the disc, normal playback may automatically resume when a new chapter is reached.

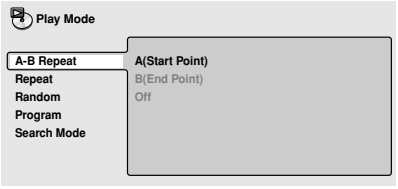
Looping a section of a disc

The A-B Repeat function allows you to specify two points (A and B) within a track (CD and Video CD) or title (DVD) that form a loop which is played over and over.

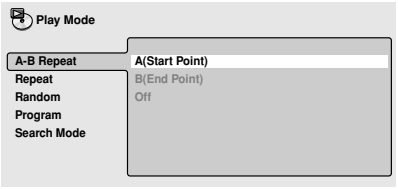
A-B Repeat is not available with MP3 discs, Video CDs in PBC mode, or unfinalized CD-R/RW discs.

1 During playback, press DVD SETUP and select 'Play Mode'.

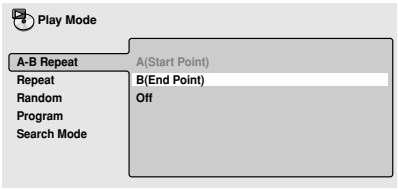
2 Select 'A-B Repeat' from the list of functions on the left.



3 Press ENTER on 'A(Start Point)' to set the loop start point.



4 Press ENTER on 'B(End Point)' to set the loop end point.



After pressing **ENTER**, playback jumps back to the start point and plays the loop.

- The minimum loop time is 2 seconds.

5 To resume normal playback, select 'Off' from the menu.

Tip

- While the loop is being played, you can press **CLEAR** to resume normal playback.

Using repeat play

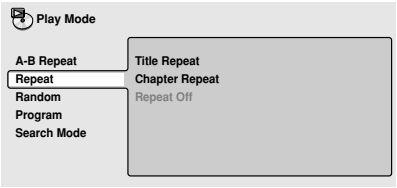
There are various repeat play options, depending on the kind of disc loaded. It's also possible to use repeat play together with program play to repeat the tracks/chapters in the program list (see *Creating program lists* on page 43).

Repeat play is not available with Video CDs in PBC mode, or unfinalized CD-R/RW discs.

Using the OSD

1 During playback, press DVD SETUP and select 'Play Mode'.

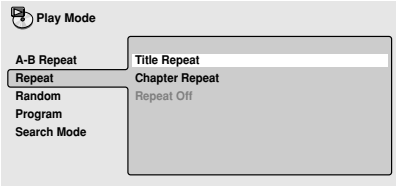
2 Select 'Repeat' from the list of functions on the left.



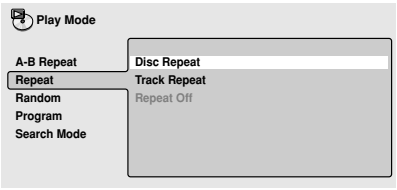
3 Select a repeat play option.

If program play is active, select **Program Repeat** to repeat the program list, or **Repeat Off** to cancel.

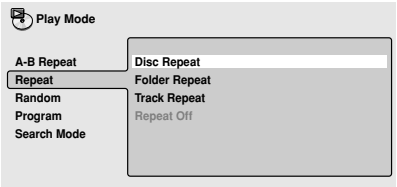
For DVD discs, select **Title Repeat** or **Chapter Repeat** (or **Repeat Off**).



For CDs and Video CDs, select **Disc Repeat** or **Track Repeat** (or **Repeat Off**).



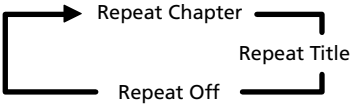
For MP3 discs, select **Disc Repeat**, **Folder Repeat** or **Track Repeat** (or **Repeat Off**).



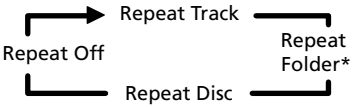
Using the front panel display

• **During playback, press REPEAT (SHIFT+2) select a repeat play option.**
Press repeatedly to cycle through the different options:

• During DVD playback



• During CD/VCD/MP3 playback



* Available during MP3 playback only

Note

- You can't use repeat and random play at the same time.
- To cancel repeat playback without stopping playback, press **CLEAR**. The rest of the disc plays out.
- If you switch camera angles during repeat play, repeat play is cancelled.

Using random play

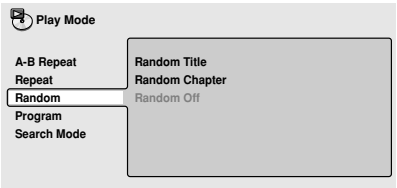
Use the random play function to play titles or chapters (DVD) or tracks (CD, Video CD and MP3 discs) in a random order.

You can set the random play option when a disc is playing or stopped.

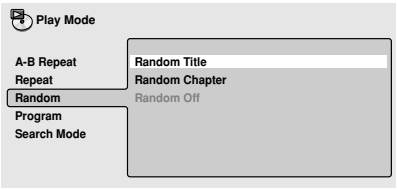
Using the OSD

1 During playback, press DVD SETUP and select 'Play Mode'.

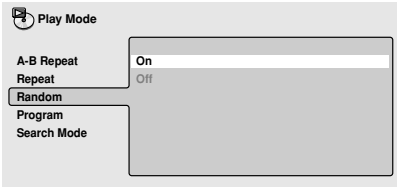
2 Select 'Random' from the list of functions on the left.



3 Select a random play option.
For DVD discs, select **Random Title** or **Random Random Chapter** (or **Random Off**)



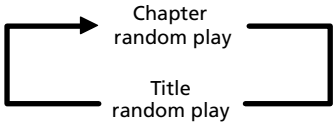
For CDs, Video CDs and MP3 discs, select **On** or **Off** to switch random play of all tracks on the disc (or within an MP3 disc folder) on or off.



Using the front panel display

- **During DVD playback, press RANDOM (SHIFT+3) to select a random play option, then press ENTER.**

Pressing **RANDOM** repeatedly cycles through the different options:



Random playback begins after pressing ► or **ENTER**.

- **During CD/VCD/MP3 playback, press RANDOM (SHIFT+3).**

Random play of all tracks on the disc (or within an MP3 disc folder) begins.

Tip

- To stop the disc and cancel random playback, press ■ (stop).
- To cancel random playback without stopping playback, press **CLEAR**. The rest of the disc plays out.
- When random play is used with MP3 discs, only tracks from the current folder are played.
- During random play, the ⏮ and ⏭ buttons function a little differently from normal: ⏮ returns to the beginning of the current track/chapter. You can't go back further than this. ⏭ selects another track/chapter at random from those remaining.
- You can't use random play together with program or repeat play.

Note

- You can't use random play with Video CDs playing in PBC mode.

Creating program lists

This feature lets you program the play order of titles/chapters/folders/tracks on a disc.

Using the OSD

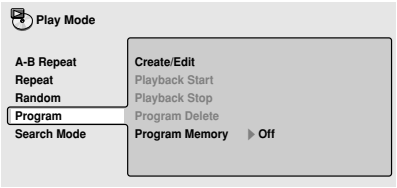
If you're playing a DVD disc or a Video CD, you should already be using the OSD to navigate the contents. For CDs and MP3 discs (in cases when you're not using the OSD), see *Using the front panel display* on page 46.

1 Press DVD SETUP and select 'Play Mode'.

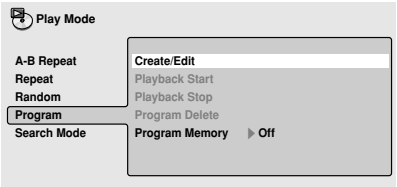
Tip

- With DVDs and Video CDs, you can press **PROGRAM (SHIFT+1)** instead of following steps 1 to 3 to skip directly to step 4.

2 Select 'Program' from the list of functions on the left.



3 Select 'Create/Edit' from the list of program options.



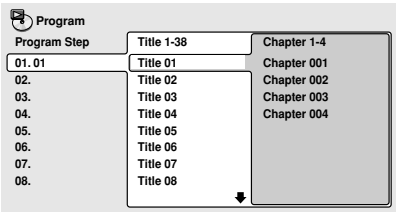
The playlist edit screen that appears depends on the kind of disc loaded.

On the left side is the program list, then to the right is a list of titles (if a DVD disc is loaded), tracks (for CDs and Video CDs), or folder names (for MP3 discs). On the far right is a list of chapters (for DVD) or track names (for MP3).

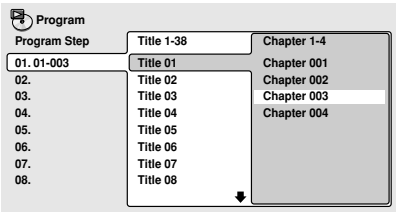
4 Select a title, chapter or track for the current step in the program list.

For a DVD disc, you can add a whole title, or a chapter within a title to the program list.

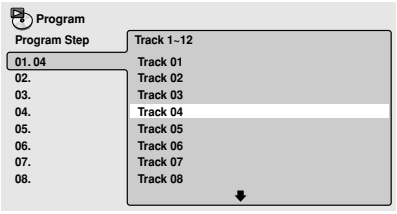
- To add a title, select the title.



- To add a chapter, first highlight the title, then press → (cursor right) and select a chapter from the list.

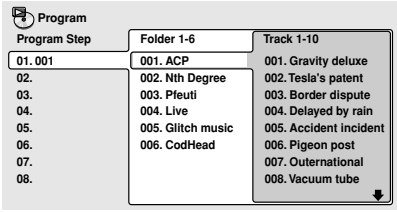


For a CD or Video CD, select a track to add to the program list.

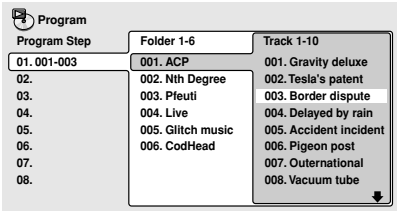


For an MP3 disc, you can add a whole folder, or a track within a folder to the program list.

- To add a folder, select the folder.



- To add a track, first find the folder, then press → (cursor right) and select a track name from the list.



After pressing **ENTER** to select the title/chapter/folder/track, you'll automatically be taken to the next step in the program list.

5 Repeat step 4 to build up a program list.
A program list can contain up to 24 steps.

6 To play the program list, press ► (play).
Program play remains active until you turn off program play (see below), erase the playlist (see below), eject the disc or switch off the player.

Editing program lists using the OSD

After creating a program list, you can add, delete and change steps.

1 Press DVD SETUP and select 'Play Mode'.

2 Select 'Program' from the list of functions on the left.

3 Select 'Create/Edit' from the list of program options.

4 To clear a step, highlight the step number and press CLEAR.

5 To insert a step in the middle of the program list, highlight the step where you want the new step to appear, then select a title/chapter/folder/track to add.
After pressing **ENTER**, the new step is inserted into the list.

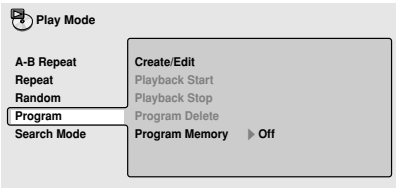
6 To add a step to the end of the program list, highlight the next free step then select a title/chapter/folder/track to add.

Other functions available from the OSD program menu

As well as creating and editing a program list, you can start program play, cancel program play, erase the program list, and memorize a program list from the Program menu.

1 Press DVD SETUP and select 'Play Mode'.

2 Select 'Program' from the list of functions on the left.



3 Select a program play function.

- **Create/Edit** – See above
- **Playback Start** – Starts playback of a saved program list
- **Playback Stop** – Turns off program play, but does not erase the program list
- **Program Delete** – Erases the program list and turns off program play
- **Program Memory** (DVD only) – Select **On** to save the program list for the disc loaded. (Select **Off** to cancel the program memory for the disc loaded)

Tip

- Program lists are saved for the disc loaded. When you load a disc with a saved program list, program play is automatically turned on.
- You can save program lists for up to 24 discs. After that, the oldest one is replaced with the most recent one saved.

Using the front panel display

Even though the OSD is available for CDs and MP3 discs, the front panel display provides enough information to make a program list easily.

1 Make sure the disc is stopped, then press PROGRAM (SHIFT+1).

You're prompted to enter the first track in the program list.

P00 0'00"

- The total time for the program list is not shown with MP3s.

2 Use the number buttons to select a folder/track for the current step in the program list then press ENTER.

After selecting a folder on an MP3 disc, select a track in the same way.

For MP3s you can also use the ←/→ buttons to choose folder input mode or track input mode and the ↑/↓ buttons to select folder numbers or track numbers.

P01 03

Wait for the display to prompt you after completing each selection. If you make a mistake, press **CLEAR** to delete the last (most recently) programmed track.

3 Repeat step 2 to build up a program list.

A program list can contain up to 24 steps.

4 To play the program list, press ► (play).

Program play remains active until you press ■(stop), clear the playlist (see below), eject the disc or switch off the player.

Clearing a track from the program list

1 Press PROGRAM (SHIFT+1).

2 To clear the most recent track in the program, press CLEAR.
Press repeatedly to clear several steps.

Clearing the program list

You must clear the program list to program a new one.

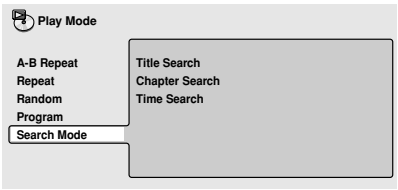
- **Press CLEAR while the disc is stopped.**

Searching a disc

You can search DVD discs by title or chapter number, or by time. CDs can be searched by track number, and Video CDs by track number or time. MP3 discs can be searched by folder or track number.

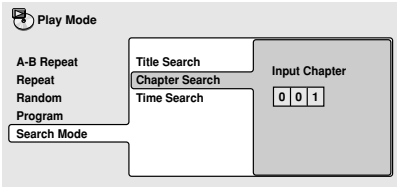
1 Press DVD SETUP and select 'Play Mode'.

2 Select 'Search Mode' from the list of functions on the left.
The search options that appear depend on the kind of disc loaded. The screen below shows the DVD search options.



3 Select a search mode.

4 Use the number buttons to enter a title, chapter, folder or track number, or a time.



- For a time search, enter the number of minutes and seconds into the currently playing title (DVD) or track (Video CD) you want playback to resume from. For example, press **4**, **5**, **0**, **0** to have playback start from 45 minutes into the disc. For 1 hour, 20 minutes and 30 seconds, press **8**, **0**, **3**, **0**.

5 Press ENTER to start playback.

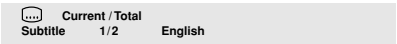
Note

- The disc must be playing in order for you to use time search.
- Search functions are not available with Video CDs in PBC mode, or unfinalized CD-R/RW discs.

Switching subtitles

Some DVD discs have subtitles in one or more languages; the disc box will usually tell you which subtitle languages are available. You can switch subtitle language during playback.

1 Press SUBTITLE repeatedly to select a subtitle option.



- To set subtitle preferences, see *Subtitle language* on page 75.

Note

- With some discs you can only change the subtitle language from the disc menu. Press **TOP MENU** to access the disc menu

Switching DVD audio language

When playing a DVD disc recorded with dialog in two or more languages, you can switch audio language during playback.

1 Press AUDIO repeatedly to select an audio language option.

- To set audio language preferences, see *Audio language* on page 75.

Note

- With some discs you can only change the audio language from the disc menu. Press **TOP MENU** to access the disc menu

Switching audio channels when playing a Video CD

When playing a Video CD, you can switch between stereo, just the left channel or just the right channel.

1 Press AUDIO repeatly to select an audio channel option.

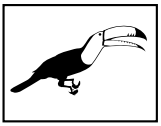
Zooming the screen

Using the zoom feature you can magnify a part of the screen by a factor of 2 or 4, while watching a DVD or Video CD.

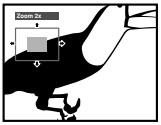
1 During playback, use the ZOOM button to select the zoom factor.

- **Normal**
- **2x**
- **4x**

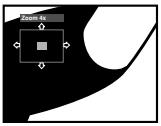
Normal



Zoom 2x



Zoom 4x



- Since DVD and Video CD have a fixed resolution, picture quality will deteriorate, especially at 4x zoom. This is not a malfunction.

2 Use the cursor buttons to change the zoomed area.

You can change the zoom factor and the zoomed area freely during playback.

- If the navigation square at the top of the screen disappears, press **ZOOM** again to display it.

Switching camera angles

Some DVD discs feature scenes shot from two or more angles—check the disc box for details.

When a multi-angle scene is playing, a icon appears on screen to let you know that other angles are available (this can be switched off if you prefer—see page 77).

● **During playback (or when paused), press ANGLE to switch the angle.**

Displaying disc information

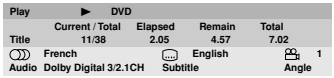
Using the OSD

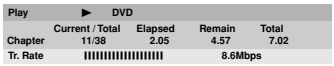
Various track, chapter and title information, as well as the video transmission rate for DVD discs, can be displayed on-screen while a disc is playing.

● **To show/switch the information displayed, press DVD DISP.**

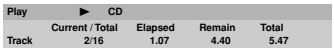
When a disc is playing, the information appears at the top of the screen. Press repeatedly to change the displayed information.

- DVD displays

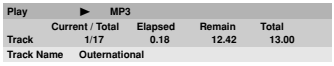

Play ► DVD
Current / Total Elapsed Remain Total
Title 11/38 2.05 4.57 7.02
French English 1
Audio Dolby Digital 3/2.1CH Subtitle Angle



- CD and Video CD displays



- MP3 disc displays



Tip

- You can see disc information (number of titles/chapters, tracks and so on from the disc navigator screen. See *Using the disc navigator to browse the contents of a disc* on page 38.

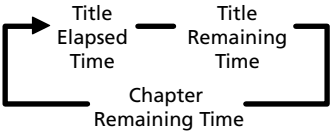
Using the front panel display

You can check various track, chapter and title information on the front panel display while a disc is playing.

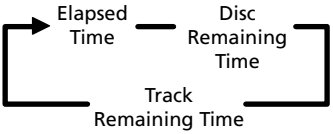
● **To show/switch the information displayed, press DVD DISP.**

Press repeatedly to change the displayed information.

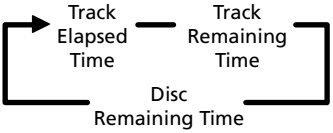
- DVD displays



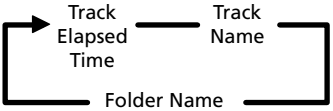
- Video CD displays



- CD displays



- MP3 disc displays

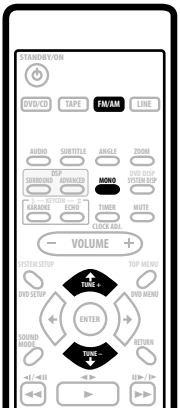


Tip

- Press **SYSTEM DISP** (**DISPLAY** on the front panel) to switch between the clock and the front panel displays above.

Choosing stations

The tuner can receive both FM and AM broadcasts, and lets you memorize your favorite stations so you don't have to manually tune in every time you want to listen.



1 Press FM/AM (remote) or TUNER (front panel) to switch to the tuner and select the AM or FM band.

Press repeatedly to switch between AM and FM. **TUNER** (front panel) switches between FM, AM and station recall (this last option is covered on page 53).

2 Tune to a frequency.

There are three tuning modes—manual, auto, and high-speed:

Manual tuning: Press **TUNE +** or **–** (**TUNING +** or **–** on the front panel) repeatedly to change the displayed frequency.

Auto tuning: Press and hold **TUNE +** or **–** (**TUNING +** or **–** on the front panel) until the frequency display starts to move, then release. The tuner will stop on the next station it finds. Repeat to search for other stations.

High-speed tuning: Press and hold **TUNE +** or **–** (**TUNING +** or **–** on the front panel) until the frequency display starts to move rapidly. Keep the button held down until you reach the frequency you want. If necessary, fine tune the frequency using the manual tuning method.

Improving poor FM reception

If you're listening to an FM station in stereo but the reception is weak, you can improve the sound quality by switching to mono.

1 Press MONO on the remote.

The **MONO** indicator lights when the tuner is in mono reception mode.

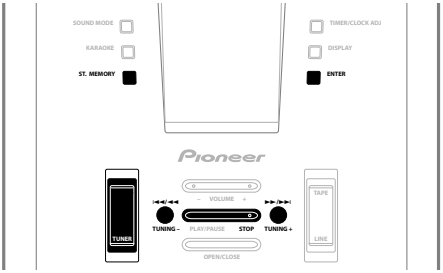
Press again to switch back to auto-stereo mode (the **STEREO** indicator lights when receiving a stereo broadcast).

Note

- To reduce noise while recording an AM broadcast, see *Improving AM tape recordings* on page 58.

Memorizing stations

You can save up to 30 station presets so that you always have easy access to your favorite stations without having to tune in manually each time. Use the front panel controls to do this.



Note

- If the unit is unplugged from the power supply completely, saved stations will remain for several days, after which you'll have to save them again.

Manually saving station presets

1 Tune to an AM or FM radio station.
For the FM band, select mono or auto-stereo reception as necessary. This setting is saved along with the preset.

2 Press ST.MEMORY .
The first unused station preset number starts blinking.

3 If necessary, use ⏮/◀◀ and ▶▶/⏭ to select the station preset you want.
There are 30 preset locations; each can store one station preset.

4 Press ENTER to save the station preset.

Automatically saving station presets

1 Press and hold ST.MEMORY for about three seconds.
Auto tuning starts in the FM band, stopping when a strong signal is received.

2 When auto tuning stops at a station, press ENTER to save the station as a preset, or press ⏮/◀◀ or ▶▶/⏭ to continue without saving.
Auto tuning resumes. After the FM band is finished, auto tuning continues in the AM band. Press ■ (stop) anytime to exit auto tuning.

Auto tuning stops automatically after the AM band is finished, or after the limit of 30 presets has been reached. When this happens, the tuner automatically switches to station preset **ST-1**.

Listening to station presets

1 Press TUNER (front panel) repeatedly to select the station preset mode.
The display shows **ST**.

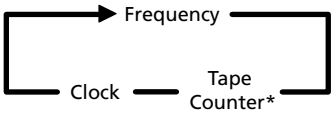
2 Use ⏮/◀◀ and ▶▶/⏭ to select a memorized station.
On the remote, use ⏮ and ⏭, ←/→ or the number buttons to select the preset you want.

Tip

- You can press **ENTER** after using the number buttons in step 2 to listen to the station preset immediately.

Changing tuner displays

- **Press SYSTEM DISP (remote) or DISPLAY (front panel) repeatedly to cycle through the tuner displays:**

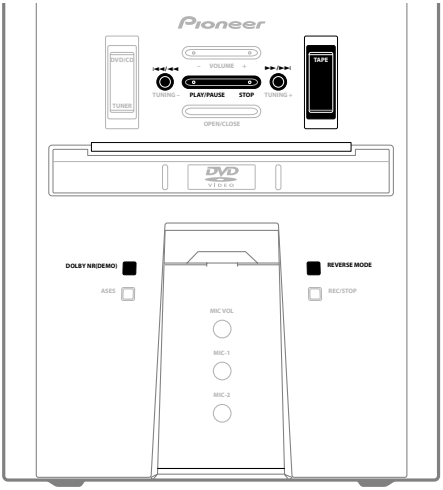


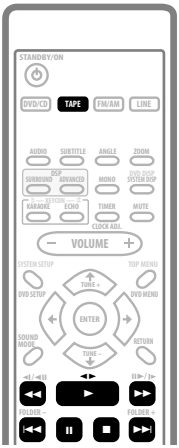
***** *Only shown while recording using the tape deck*

Playing cassette tapes

This unit has a tape deck that can be used for both recording and playback. Other features include auto-reverse and Dolby B Noise Reduction.

- Auto-reverse lets you play or record a tape without physically taking it out and turning it over.
- Dolby B NR reduces hiss on tapes recorded using Dolby B NR (which includes almost all commercially recorded tapes).





1 Push down on the cassette door (top panel) where indicated to open it and insert a tape.

2 Close the cassette door.

3 Press the DOLBY NR button (front panel only) to switch Dolby B NR on or off as required.

4 Press REVERSE MODE (front panel only) to select the reverse mode.
Press repeatedly to choose between:

- ⇄ – Single side playback
- ⇄› – Auto-reverse playback: stops after finishing playback in the 'reverse' (◄) direction
- ↻⇄› – Continuous playback (up to 16 complete plays)

5 Press TAPE to start playback.
You can also press ◄► (remote) or **PLAY/PAUSE** (front panel) to start playback when **TAPE** is selected.
The side of the tape you'll hear is whichever is face up when you load it. This is the 'forward' (►) direction, while the other side is 'reverse' (◄). The direction indicator is shown in the display.

6 To play the other side of the tape, press TAPE or ◄► (remote only).
Each time you press **TAPE** (◄►) during playback, the other side of the tape starts playing. Pressing **TAPE** (◄►) when the tape is stopped starts playback on the side it was playing previously.

The current tape direction is indicated in the display.

7 To skip back or forward a track on the tape, press ⏮ or ⏭.
On the front panel, press ⏮ /◄◄ or ►►/⏭ (the tape should be playing when you do this).

⏭ searches for the next blank space between tracks on the side currently playing (in other words, to the start of the next track), then resumes playback.

⏮ searches for the previous blank space between tracks on the side currently playing (in other words, to the start of the current track), then resumes playback.

By pressing ⏮ or ⏭ more than once, the tape will skip several tracks at once (up to a maximum of 15). For example, press ⏭ twice to skip forward two tracks.

Note

Track search is unlikely to work reliably in the following cases:

- If the space between tracks is less than about 4 seconds.
- If the recording is particularly noisy so the spaces are not recognized.
- If the recording contains frequent silences, such as a language study tape.
- If the recording contains sections of very quiet material, such as some classical music recordings.

8 To pause playback, press ❚❚ (remote only).
Press **TAPE** (◄►) to resume playback.

9 To stop playback, press ■ (remote) or STOP (front panel).

10 To fast wind the tape, press ◄◄ or ►►.
On the front panel, press ⏮ /◄◄ or ►►/⏭ (the tape should be stopped when you do this).

◄◄ rewinds the tape, regardless of the tape direction at the time. ►► always forward-winds the tape.

Resetting the tape counter

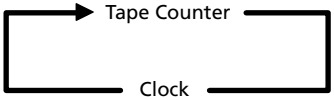
The tape counter display indicates the current location of the tape. The tape counter returns to zero automatically when you eject a tape. To reset it manually:

- **Press ■ (remote) or STOP (front panel) while the tape is stopped.**

The counter returns to **0000**.

Changing tape displays

- **Press SYSTEM DISP (remote) or DISPLAY (front panel) repeatedly to switch between the tape displays:**



Making tape recordings

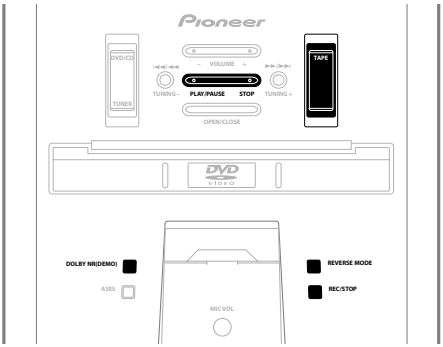
You can make tape recordings from the radio, CDs, or from an external component connected to the auxiliary inputs. If you're recording from CD it's convenient to use the ASES mode—see *Automatically recording CDs* on the following page.

Once recording has started, you can't switch to another component until recording has stopped. So, for example, you can't switch over to the tuner while you're recording a CD.

Unlike some tape decks, there's no need to set recording levels; the deck sets the level automatically. When recording, the volume has no effect on the recording. This means that you can record something with the volume turned right down if you want.

Before recording, check that the cassette erase-protect tabs have not been broken, and that the tape is Type I (normal position). You can't record on Type II (high/CrO2) or IV (metal) tapes using this deck.

If you're recording from the start of a tape, it's a good idea to wind the tape on a little so that you don't accidently start recording over the leader tape. You can either do this by hand, or load the tape into the deck and play the tape for 5–6 seconds.



1 Press TAPE then load a cassette into the tape deck.
In order to follow these instructions more easily, load the cassette with side A facing up, then use the front panel controls.

2 Check the recording direction.
If you start recording in the ► direction, both sides of the tape can be recorded (unless the erase protect tab for side B is missing). If you switch sides and start recording in the ◄ direction, then recording will start from side B and stop when the end of the tape is reached.

If you need to change the direction, press **PLAY/PAUSE** (◄►) twice, then **STOP** (■).

3 Turn Dolby NR on or off as required.
Using Dolby NR improves the sound quality of tape recordings that are going to be played on Dolby NR equipped players. If the tape is not going to be played on a tape deck with Dolby NR (or if you're not sure), you should leave Dolby NR off.

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4 Set the reverse mode (page 54).
- ⇄ (record one side only)
- ⇉ or ⇄ (record both sides if recording starts in the ► (forward) direction, or one side if recording starts in the ◄ (reverse) direction)

5 Select the source you want to record.
For example, press **TUNER** (**FM/AM** on the remote) to record from the radio. If you've selected a CD, make sure that it's stopped. You can't record while **TAPE** is selected.

6 Prepare the source for recording.
For example, tune in the radio station.

7 Press REC/STOP (front panel only).
The **REC** indicator lights in the display and the deck starts recording.

8 Start the source playing (if necessary).

9 When you're ready to stop recording, press REC/STOP again.

Automatically recording CDs (ASES)

Auto Synchro Editing System (ASES for short) makes recording CDs (including those with MP3 audio files) automatic. It also makes sure that a CD track isn't spread over two sides of a tape.

If the tape runs out midway through a CD track, the same track is automatically recorded from the beginning again on the other side.

1 Prepare the tape deck for recording.
Load a blank cassette and switch Dolby NR on or off as required. Recording starts in the ► (forward) direction, so take care which way you load the tape.

2 Load the CD you want to record.

3 Press the DVD/CD button, then press ■ (STOP).
The CD should now be selected, but not playing.

If you want to record the tracks in a different order, or record only one track, use the program play feature—see pages 43–47 for how to make a program list. Make sure playback is stopped before going to the next step.

4 Press ASES to start recording.
The **ASES** indicator lights, followed by a 4 second pause while the tape winds past the leader, then recording starts.

Recording finishes automatically when the end of the disc is reached, or the tape ends (whichever comes first).

5 If you want to stop recording before the end of the CD, press ■ (STOP).

Note

- ASES may not work correctly if the first side of the tape finishes at the same time as a track ends. If this happens, stop the recording then resume on the other side without ASES.
- You can't make ASES tape recordings of Video CDs or DVD-Video discs.

Improving AM tape recordings

- Default setting:**B.CUT 1**

Recording AM broadcasts on cassette tape can result in noisy recordings. If you experience this, change the beat cut mode.

1 Switch the system into standby.

2 Press ENTER.

3 Use the ←/→ buttons to select the beat cut (BEAT CUT) display.
On the front panel use I◄◄/◄◄ and ►►/►►I.

4 Press ENTER.
The current setting is shown in the display.

5 Use the ↑/↓ buttons to select B.CUT 1 or B.CUT 2.
On the front panel use I◄◄/◄◄ and ►►/►►I.

6 Press ENTER to confirm.
B.CUT lights in the display when **B.CUT 2** is selected.

Reducing the source signal level

- Default setting:**ATT OFF**

Some auxilliary sources may produce a high signal level which may produce unpleasant distortion if recorded on the built-in tape recorder. In such cases, you may need to reduce the signal level of the line source by switching on the attenuator.

1 Switch the system into standby.

2 Press ENTER.

3 Use the ←/→ buttons to select the attenuation (LINE ATT) display.
On the front panel use I◄◄/◄◄ and ►►/►►I.

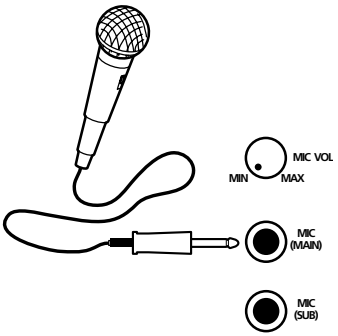
4 Press ENTER.
The current setting is shown in the display.

5 Use the ↑/↓ buttons to select ATT ON or ATT OFF.
On the front panel use I◄◄/◄◄ and ►►/►►I.

6 Press ENTER to confirm.
When **ATT ON** is selected, **LINE ATT** shows in the display when **LINE** is selected.

Singing karaoke

Using the karaoke features you can plug in a microphone and mix the sound of your own voice with a backing track. The backing track can be anything you like, from a song on the radio, to a dedicated DVD karaoke disc. Adjust the microphone level relative to the backing track.



1 Set the MIC VOL knob (front panel) to minimum.

You'll have to open the lower door on the front panel to access it.

2 Plug in the microphone(s).

The mic jacks are located below the **MIC VOL** knob.

- If the microphone has an on/off switch, make sure it's on.
- If you're only using one mic, plug it into the **MIC (MAIN)** jack. The **MIC (SUB)** jack can be used only if **MIC (MAIN)** is also connected.

3 Load a karaoke backing disc or tape.

You can also use the radio or a component connected to the auxiliary inputs as source material for a backing track.

- If you want to play from a track other than the first, select the track now.

4 To change the mix (CD or VCD only), press KARAOKE.

Pressing repeatedly switches between these options:

- **KARAOKE** (Vocal cancel) – Vocals in the backing track are partially eliminated using EQ.
- **L CH** – Left channel only. Use for tracks that have a vocal recorded in the right channel.
- **R CH** – Right channel only. Use for tracks that have a vocal recorded in the left channel.
- **L+R CH** – Use to put a single-channel vocal track into the center of the mix.
- **STEREO** (Off) – Switches the Karaoke mode off.

For the EV51DVD model only

- During DVD playback, pressing **KARAOKE** automatically switches to **STEREO** playback and downmixes a multi-channel source to two channels.

5 Play the backing track.

6 Adjust the MIC VOL knob to get the sound you want.

To avoid unpleasant feedback, make sure you don't point the microphone(s) at the speakers.

7 Sing!

Note

- With Video CDs, make sure the **STEREO** audio channel option (also see page 48) is selected so that you can use the karaoke features.
- Depending on the microphone level, the sound of the disc may distort. If this happens, turn down the volume.

Changing the vocal mix

Adding some effects to the microphone mix can sometimes improve the overall sound. You can choose between three echo levels.

- **To add effects to the microphone mix, press ECHO.**

Pressing repeatedly switches between echo levels 1 to 3 and off.

Changing the backing track

Sometimes you may want to lower or raise the pitch of the backing track to match your vocal range.

- Press **KEY CONTROL** ♭ (**SHIFT** + **KARAOKE**) or ♯ (**SHIFT**+**ECHO**) to lower or raise the pitch of the backing track.

For the EV51DVD model only

- During DVD playback, pressing **KEY CONTROL** automatically switches to **STEREO** playback and downmixes a multi-channel source to two channels.

Introduction to surround sound

There are two basic sound mode options: Surround and Advanced Surround DSP.

Surround modes

There are several different Surround modes you can use with a source, but for basic playback and multi-channel decoding, you can simply select **AUTO**.
Use one of the three Pro Logic II modes to add depth to a 2-channel source.

Auto

The **AUTO** mode plays back the source according to the type of signal it has detected. For example, multichannel sources are automatically decoded according to the format, and two-channel sources are played in stereo. For basic home theater decoding, simply leave the system on this setting.

Pro Logic

This mode gives 4 channel surround sound. It is less sensitive to the quality of the source material, so may be useful when Pro Logic II Movie/ Music modes do not give good results.

Pro Logic II Movie

This mode gives 5 channel surround sound. It is suitable for movies, especially those recorded in Dolby Surround. The channel separation and movement of surround effects is comparable to Dolby Digital 5.1.

Pro Logic II Music

This mode gives 5 channel surround sound and is suitable for music. Compared to Pro Logic II Movie, the surround effect is more enveloping.

Stereo

When you select **STEREO**, you will hear the source through just the front left and right speakers. Dolby Digital and DTS multi-channel sources are downmixed to stereo.

The audio plays according to the surround setup settings and you can still use the tone control (**SOUND MODE**) functions.

Advanced Surround DSP modes

These are designed to be used with multi channel surround sound audio/visual sources (like DVDs and LDs). Most Advanced Surround modes are designed to be used with film soundtracks, but some modes are also suited for music sources. Try different settings with various soundtracks to see which you like.

Extra Power

Gives additional energy and depth to a stereo source by using the surround speakers in addition to the front speakers (see the diagram on page 14 for the Extra Power mode speaker setup).

Music

Simulates the acoustic environment of a large concert hall and is suitable for music.

Movie
Simulates the relaxed environment of a movie theater, and is suitable for watching movies.

Virtual Surround Back (VIRTL SB)
The Virtual Surround Back effect simulates 6.1 surround channel listening, giving the impression that there is a surround back speaker in your system when listening to a 5.1 channel source.

Expanded
This mode is especially designed to give sound depth to stereo sources. The overall effect builds a dynamic and broad sound space, allowing two-channel (stereo) signals to imitate a five speaker sound. Use with Dolby Pro Logic for a stereo surround effect. You can also use with Dolby Digital sources for a wider stereo field than the Surround modes.

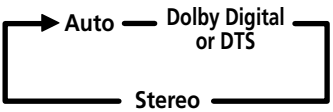
Listening to multi-channel playback

Dolby Pro Logic, Dolby Digital and DTS signal processing is done automatically corresponding to the input signal.

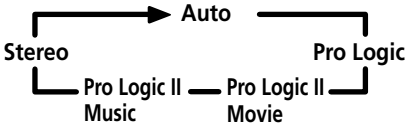
1 Select the source you want to playback.

2 Press SURROUND.
For multi-channel sources, Dolby/DTS decoding is selected automatically according to the source and **AUTO** shows in the display.

Selecting **STEREO** bypasses the Surround modes and downmixes multi-channel sources to your two-front speakers.



For a two channel source, you can press **SURROUND** repeatedly to select between the three Dolby Pro Logic II modes.



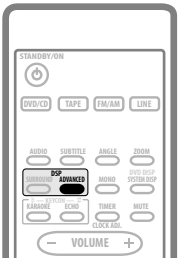
Refer to pages 62–63 for more details about each mode.

Note

- You can't use **SURROUND** and the karaoke features at the same time.
- When the headphones are connected, you can only use the **STEREO** listening mode.

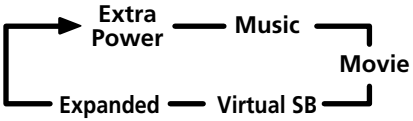
Using Advanced Surround

Use the Advanced Surround modes to add DSP effects to a multi-channel source.



- **Press ADVANCED SURROUND (ADV. SURR) repeatedly to cycle the sound options.**

Each press changes the display as follows:



Refer to pages 62–63 for more details about each surround effect.

Note

- The **Music**, **Movie** and **Expanded** effects of Dolby/DTS can be adjusted in the range of 10 to 90 (the default setting is 70) using the **SOUND MODE** button (see page 65). The effect level can be set for each of these Advanced Surround modes. The Surround modes cannot be changed.
- You can't use **ADVANCED SURROUND** and the karaoke features at the same time.
- When the headphones are connected, you can only use the **STEREO** listening mode.

Adjusting the bass and treble

To help you get the sound you want you can increase or reduce the bass and treble.

- Default setting: **BASS+1** (*EV51DVD*)
  BASS+2 (*EV21DVD*)

1 Press SOUND MODE repeatedly to select BASS or TREBLE.
You can also use the ←/→ (cursor left/right) buttons on the remote to select a menu item after you've pressed **SOUND MODE**.

2 Use ↑/↓ (remote) or ⏮/◀◀ and ▶▶/⏭ (front panel) to adjust the sound.
The bass and treble can be adjusted from -4 to +4.

3 Press ENTER.

Adjusting the balance

EV21DVD model only

To help you get the sound you want you can change the left/right balance.

1 Press SOUND MODE repeatedly to select CENTER, LEFT or RIGHT.
You can also use the ←/→ (cursor left/right) buttons on the remote to select **CENTER**, **LEFT** or **RIGHT** after you've pressed **SOUND MODE**.

2 Use ↑/↓ (remote) or ⏮/◀◀ and ▶▶/⏭ (front panel) to adjust the balance.
The balance can be adjusted from Left 10 to Right 10.

3 Press ENTER.

Creating wider stereo sound

EV21DVD model only

The Stereo Wide feature makes the stereo spread appear wider than it really is—useful when the speakers are close together.

1 Press SOUND MODE repeatedly to select ST-W ON or ST-W OFF.
You can also use the ←/→ (cursor left/right) buttons on the remote to select a menu item after you've pressed **SOUND MODE**.

2 Use ↑/↓ (remote) or ⏮/◀◀ and ▶▶/⏭ (front panel) to select ST-W ON or OFF.

3 Press ENTER.

Saving your sound preferences

EV21DVD model only

If you have certain preferences for the bass, treble and stereo-wide controls, you can store these as a preset for easy recall.

1 Make sure the stereo-wide and tone controls are the way you want them, then press and hold ENTER for three seconds.
USER 1 or **USER 2** will blink in the display.

2 Use ↑/↓ (remote) or ⏮/◀◀ and ▶▶/⏭ (front panel) to select USER 1 or USER 2.

3 Press ENTER.

Using the Sound Field Control

EV21DVD model only

Depending on the source you're listening to, you may want to use the Sound Field Control to match the source you're listening to.

- **Press SFC repeatedly to select a sound mode.**

The options are as follows:

- **SFC OFF** – (**SFC** indicator disappears)
- **ACTION** – Good for action movies or movies with lots of sound effects
- **DOME** – Can be used with music to give a 'live' feel to the sound source
- **DRAMA** – Good for movies with lots of dialogue
- **KARAOKE** – Reduces the level of vocal tracks on pre-recorded music
- **USER 1** – Custom settings 1 (see *Saving your sound preferences*, previous page)
- **USER 2** – Custom settings 2 (see *Saving your sound preferences*, previous page)

Switching off the center speaker

EV21DVD model only

If you want to listen to a stereo source through the front left and right speakers only, you can switch off the center speaker

- **Press CENTER SP (SHIFT+MONO on the remote control) to switch on/off the center speaker.**

Adjusting the effect level

EV51DVD model only

You can adjust the effect level of the Music, Movie and Expanded Advanced Surround DSP effects to get the sound that you want.

1 Press SOUND MODE repeatedly to select EFFECT.

You can also use the ←/→ (cursor left/right) buttons on the remote to select a menu item after you've pressed **SOUND MODE**.

2 Use ↑/↓ (remote) or ⏮/◀◀ and ▶▶/⏭ (front panel) to adjust the DSP effect level.

The DSP effect level can be adjusted from 10 (min) to 90 (max).

3 Press ENTER.

Boosting the bass level

EV51DVD model only

- Default setting: **BOOST ON**

If you want to bring up the low end for certain kinds of music or sound sources, you can use the bass boost to do so.

1 Press SOUND MODE repeatedly to select BOOST ON or BOOST OFF.

You can also use the ←/→ (cursor left/right) buttons on the remote to select a menu item after you've pressed **SOUND MODE**.

2 Use ↑/↓ (remote) or ⏮/◀◀ and ▶▶/⏭ (front panel) to select the BOOST ON or OFF.

3 Press ENTER.

Muting the sound

Use the mute button if you need to momentarily turn off any sound coming out of the speakers.

- **Press MUTE to switch off the volume.**

To switch the sound back on, adjust the volume or press **MUTE** again.

Setting the wake-up timer

Use the wake-up timer to set the system to switch on at any time and start playing whatever source you want.

Note

- The clock must be set to the correct time for the wake-up timer to work properly (see page 26).
- You can't have the record timer and the wake-up timer set at the same time.

1 Select the source you want played.

For example, press **FM/AM** (**TUNER** on the front panel) to select the radio as your source.

2 Prepare the source.

For example, tune in the radio station you want to wake up to.

If you've selected a CD or tape, make sure that it's stopped.

3 Set the volume.

4 Press TIMER/CLOCK ADJ.

5 Use the ←/→ buttons to select WAKE-UP.

On the front panel use I◄◄/◄◄ and ►►/►►I.

6 Press ENTER.

7 Use the ←/→ buttons to select EDIT.

On the front panel use I◄◄/◄◄ and ►►/►►I.

8 Press ENTER.

9 Set the switch-on time.

Use the ↑/↓ buttons (I◄◄/◄◄ and ►►/►►I on the front panel) to set the hour, then press **ENTER**. Set the minute in the same way, pressing **ENTER** when you're done.

10 Set the switch-off time.

Use the ↑/↓ buttons (I◄◄/◄◄ and ►►/►►I on the front panel) to set the hour, then press **ENTER**. Set the minute in the same way, pressing **ENTER** when you're done.

After pressing **ENTER** this last time, the switch-on and switch-off times are confirmed in the display.

11 Switch the system into standby mode.

WAKE-UP and the timer indicator (🕘) show in the display to confirm that it's set.

- The wake-up timer will not work if the system is left on!

Tip

- You can check the timer settings in standby by pressing **TIMER/CLOCK ADJ**. If you've already set the record timer, those settings will be shown first, followed by the wake-up timer settings.

Turning the wake-up timer on/off

If the wake-up timer is active, it will switch on everyday at the time you have set. Here's how to turn it on or off:

1 Press TIMER/CLOCK ADJ.

2 Use the ←/→ buttons to select WAKE-UP.

On the front panel use I◄◄/◄◄ and ►►/►►I.

3 Press ENTER.

4 Use the ←/→ buttons to select TIME (or TIMER) ON or OFF.

On the front panel use I◄◄/◄◄ and ►►/►►I.

- You must have the timer set (see previous page) to select **TIME ON**. The wake-up timer switches on and off according to your previous settings.

5 Press ENTER.

WAKE-UP and the timer indicator (🕘) show in the display when you select **TIME ON**.

Note

- The wake-up timer will automatically be canceled if the clock is reset.

Setting the sleep timer

The sleep timer switches off the system after a specified time so you can fall asleep without worrying about it.

Note

- If you set the sleep timer while either the wake-up or record timer is active, the earlier switch off time takes priority.

1 Press SLEEP (SHIFT+6) to select a switch-off time.

Press repeatedly to switch between:

- **AUTO** – System switches off 1 minute after the current source has finished playing. You can only set this during CD, MP3 or tape playback. CD/MP3 repeat play and endless play (for tapes) does not work with the automatic sleep timer.
- **SLEEP 90** – system switches off after 90 minutes
- **SLEEP 60** – system switches off after an hour
- **SLEEP 30** – system switches off after 30 minutes
- **OFF** – cancels the sleep timer

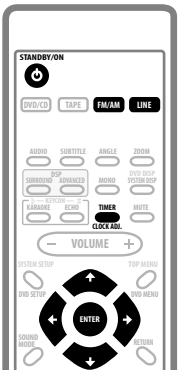
When the sleep timer is on, 💤 shows in the display.

2 To check how much time is left, press SLEEP.

The remaining time is displayed momentarily. Don't press **SLEEP** again while the time is displayed or you'll switch the sleep timer off!

Setting the record timer

You can set the timer to record from the **LINE IN** source, or something off the radio. For example, you might want to record a program that is broadcast while you're at work. During the actual recording, the volume is automatically set to minimum. After the recording has finished, the record timer is canceled.



Note

- The clock must be set to the correct time for the record timer to work properly. (see page 26)
- You cannot have the record timer and the wake-up timer set at the same time.

1 Set up the tape deck.

Load a cassette tape, wind on past the leader tape, switch on/off Dolby NR as required and set the reverse mode (see pages 54–59 for more on recording cassette tapes).

2 Select the source you want to record.

Press **FM/AM** (**TUNER** on the front panel) to select the tuner or **LINE** to select the **LINE IN** source. If you select the tuner, tune in the station you want to record (see page 51 for more detailed instructions on tuning).

3 Press TIMER/CLOCK ADJ.

4 Use the ←/→ buttons to select REC.

On the front panel use I◄◄/◄◄ and ►►/►►I.

5 Press ENTER.

6 Use the ←/→ buttons to select EDIT.

On the front panel use I◄◄/◄◄ and ►►/►►I.

7 Press ENTER.

8 Set the switch-on time.

Use the ↑/↓ buttons (I◄◄/◄◄ and ►►/►►I on the front panel) to set the hour, then press **ENTER**. Set the minute in the same way, pressing **ENTER** when you're done.

9 Set the switch-off time.

Use the ↑/↓ buttons (I◄◄/◄◄ and ►►/►►I on the front panel) to set the hour, then press **ENTER**. Set the minute in the same way, pressing **ENTER** when you're done.

After pressing **ENTER** this last time, the switch-on and switch-off times are confirmed in the display.

10 Switch the system into standby mode.

REC and the timer indicator (⏲) show in the display to confirm that it's set.

- The record timer will not work if the system is left on!

Tip

- You can check the timer settings in standby by pressing **TIMER/CLOCK ADJ**.

Turning the record timer on/off

1 Press TIMER/CLOCK ADJ.

2 Use the ←/→ buttons to select REC.
On the front panel use I◄◄/◄◄ and ►►/►►I.

3 Press ENTER.

4 Use the ←/→ buttons to select TIME (or TIMER) ON or OFF.
On the front panel use I◄◄/◄◄ and ►►/►►I.

- You must have the timer set (see previous page) to select **TIME ON**. The record timer switches on and off according to your previous settings.

5 Press ENTER.

REC and the timer indicator (⏲) show in the display when you select **TIME ON**.

Child Lock

This system has a child lock feature that makes the front panel buttons and controls inoperative. This is useful when you have set the timer and don't want the recorder accidently turned on before the timer recording has started.

1 Switch the system into standby then press ENTER.

2 Use the ←/→ buttons to select KEY LOCK.
On the front panel use I◄◄/◄◄ and ►►/►►I.

3 Press ENTER.
The current setting is shown in the display.

4 Use the ↑/↓ buttons to select LOCK ON or LOCK OFF.
On the front panel use I◄◄/◄◄ and ►►/►►I.

5 Press ENTER to confirm.

Note

- You will have to use the remote control to switch child lock off.

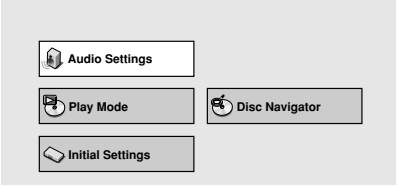
Audio DRC

- Default setting: **Off**

When watching Dolby Digital DVDs at low volume, it's easy to lose the quieter sounds completely—including some of the dialog. Using Audio DRC (Dynamic Range Control) can help by bringing up the quieter sounds, while controlling loud peaks.

How much of a difference you hear depends on the material you're listening to. If the material doesn't have wide variations in volume, you may not notice much change.

1 Press DVD SETUP and select 'Audio Settings' from the on-screen display.



2 Highlight Audio DRC, then use the ←/→ buttons (cursor left/right) to change to 'Off', 'Medium' or 'High' as required.

3 Press ENTER to make the setting and exit the Audio Settings screen.

Note

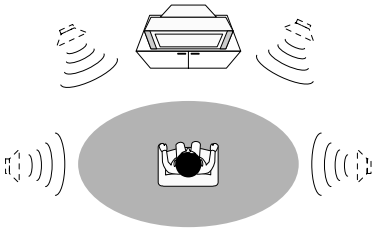
- Audio DRC is only effective with Dolby Digital audio sources.

Virtual Surround

- Default setting: **Off**

Switch on Virtual surround to enjoy surround sound effects from just two speakers.

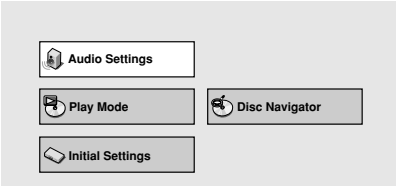
When you play a Dolby Digital soundtrack, Virtual surround, which uses TruSurround technology from SRS, produces a deep, realistic 3D soundspace from a pair of stereo speakers.



TruSurround by SRS

TruSurround and the ● ® symbol are trademarks of SRS Labs, Inc. TruSurround technology is incorporated under license from SRS Labs, Inc.

1 Press DVD SETUP and select 'Audio Settings' from the on-screen display.



2 Highlight Virtual Surround, then use the ←/→ buttons (cursor left/right) to switch on or off as required.
The display toggles between **Virtual Surround** and **Off**.

3 Press ENTER to make the setting and exit the Audio Settings screen.
The Virtual Surround indicator ((●)) lights.

Tip

- You can also use the **VIRTL. SURR.** (**VIRTUAL SURROUND** on the front panel) button to switch Virtual Surround on or off.

Note

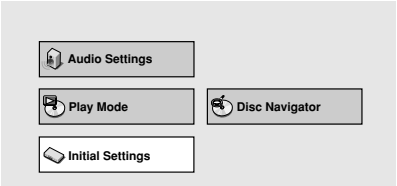
- You can only use this feature when **DVD/CD** is selected.
- The quality of the surround effect varies with the disc.

Using the Initial Setup menu

The Initial Setup menu gives you complete control in setting up your DVD player, including video output settings and parental lock settings, among others.

If an option is grayed out it means that it cannot be changed at the current time. This is usually because a disc is playing. Stop the disc, then change the setting.

1 Press DVD SETUP and select 'Initial Settings' from the on-screen display.



2 Select the setup category from the list on the left, then select an item from the menu list to the right.

3 Make the setting you want.

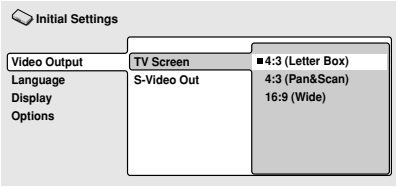
Note

- The language options shown in the on-screen display illustrations on the following pages may not correspond to those available in your country or region.

Video settings

TV Screen

- Default: **4:3 (Letterbox)**



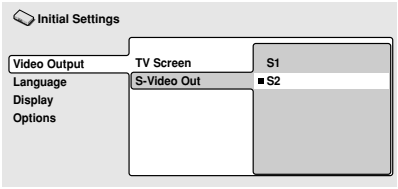
If you have a widescreen TV, select the **16:9 (Wide)** setting—widescreen DVD software is then shown using the full screen area. When playing software recorded in standard (4:3) format, the settings on your TV will determine how the material is presented—see the manual that came with your TV for details on what options are available.

If you have a standard TV, select either **4:3 (Letter Box)** or **4:3 (Pan & Scan)**. In Letter Box mode, widescreen software is shown with black bars at the top and bottom of the screen. Pan & Scan chops the sides off widescreen material to make it fit the 4:3 screen (so even though the image looks larger on the screen, you're actually seeing less of the picture). See also page 89.

S-Video Out

- Default setting: **S2**

You only need to make this setting if you connected this player to your TV using an S-Video cord.

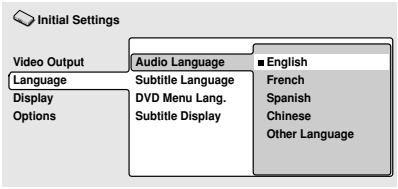


If you find that the picture is stretched or distorted on the default **S2** setting, try changing it to **S1**.

Language settings

Audio Language

- Default Setting: **English**



This setting is your preferred Audio Language for DVD discs. If the language you specify here is recorded on a disc, the system automatically plays the disc in that language.

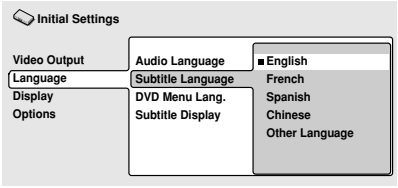
The DVD format recognizes 136 different languages. Select **Other Language** if you want to specify a language other than those listed, then follow the on-screen display to select a language. You may also want to refer to the Language code list on page 92.

Tip

- You can switch between the languages recorded on a DVD disc any time during playback using the **AUDIO** button. (This does not affect this setting.) See page 48.

Subtitle Language

- Default Setting: **English**



This setting is your preferred subtitle language for DVD discs. If the language you specify here is recorded on a disc, the system automatically plays the disc with those subtitles.

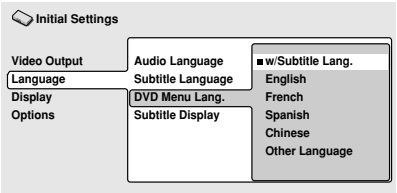
The DVD format recognizes 136 different languages. Select **Other Language** if you want to specify a language other than those listed, then follow the on-screen display to select a language. You may also want to refer to the Language code list on page 92.

Tip

- You can change or switch off the subtitles on a DVD disc any time during playback using the **SUBTITLE** button. (This does not affect this setting.) See page 48.

DVD Menu Language

- Default Setting: **w/Subtitle Lang.**

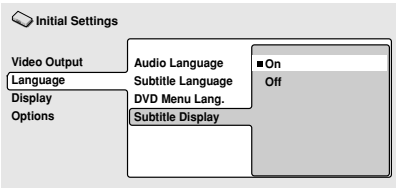


Some multilingual discs have disc menus in several languages. This setting specifies in which language the disc menus should appear. Leave on the default setting for menus to appear in the same language as your Subtitle Language—see the previous page.

The DVD format recognizes 136 different languages. Select **Other Language** if you want to specify a language other than those listed, then follow the on-screen display to select a language. You may also want to refer to the Language code list on page 92.

Subtitle Display

- Default Setting: **On**

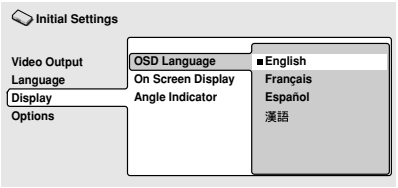


When set to **On**, the player displays subtitles according to the Subtitle Language settings. Set to **Off** to switch subtitles off altogether.

Display settings

OSD Language

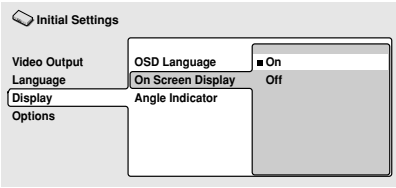
- Default setting: **English**



This sets the language of this player's on-screen displays.

On Screen Display

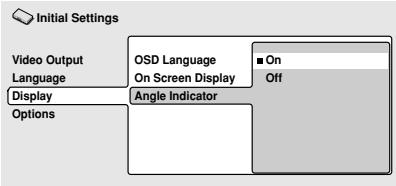
- Default setting: **On**



This sets whether operation displays are shown on-screen (**Play**, **Resume**, **Scan** and so on.)

Angle Indicator

- Default setting: **On**



If you prefer not to see the camera icon on-screen during multi-angle scenes on DVD discs, change this setting to **Off**.

Options

Parental Lock

- Default level: **Off**
- Default password: **none**
- Default country code: **us (2119)**

Some DVD-Video discs feature a Parental Lock level. If your player is set to a lower level than the disc, the disc won't play. This gives you some control about what your children watch on your DVD player.

Some discs also support the Country Code feature. The player does not play certain scenes on these discs, depending on the country code you set.

Before you can set the Parental Lock level or the Country Code you must register a password. As the password owner, you can change the Parental Lock level or Country Code whenever you like. You can also change the password.

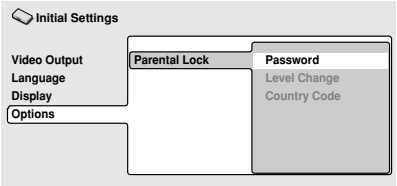
Note

- Not all discs that you may consider inappropriate for your children use the Parental Lock feature. These discs will always play without requiring the password first.
- If you forget your password, you'll need to reset the player to its factory settings (page 81), then register a new password.

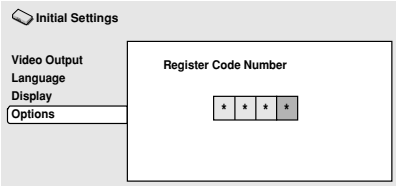
Registering a new password

You must register a password before you can change the Parental Lock level or enter a Country Code.

1 Select 'Password'.



2 Use the number buttons to enter a 4-digit password.



The numbers you enter show up as asterisks (*) on-screen.

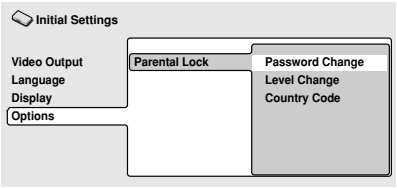
3 Press ENTER to register the password and return to the Options menu screen.

If you forget your password, you can reset the system then register a new one. See page 81 for how to reset the player.

Changing your password

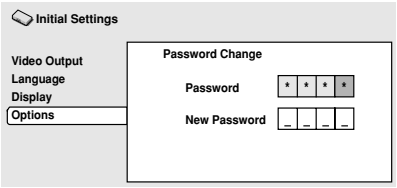
To change your password, confirm your existing password then enter a new one.

1 Select 'Password Change'.

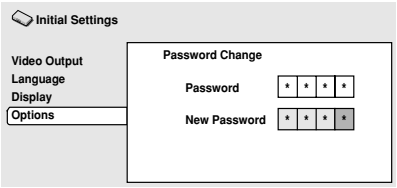


2 Use the number buttons to enter your existing password, then press ENTER.

- The numbers appear as asterisks as you enter them.



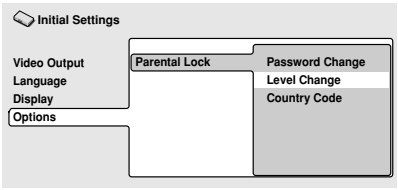
3 Enter a new password.



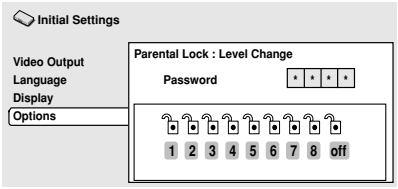
4 Press ENTER to register the new password and return to the Options menu screen.

Setting/changing the Parental Lock level

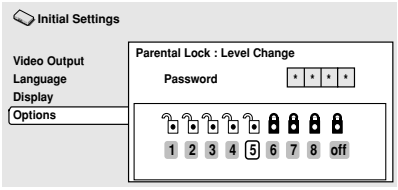
1 Select 'Level Change'.



2 Use number buttons to enter your password, then press ENTER.



3 Select a new level.



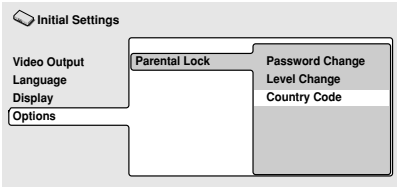
Press ← (cursor left) repeatedly to lock more levels (more discs will require the password); press → (cursor right) to unlock levels. You can't lock level 1.

4 Press ENTER to set the new level and return to the Options menu screen.

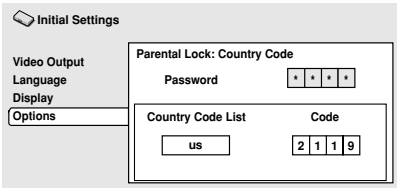
Setting/changing the Country Code

You may also want to refer to the Country code list on page 92.

1 Select 'Country Code'.



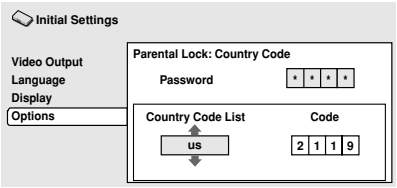
2 Use number buttons to enter your password, then press ENTER.



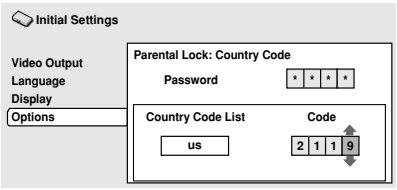
3 Select a country code.

There are two ways you can do this.

- Select by code letter: Use ↑/↓ (cursor up/down) to change the country code.



- Select by code number: Press → (cursor right) then use the number buttons to enter the 4-digit country code (you can find the Country code list on page 92.



4 Press ENTER to set the new Country Code and return to the Options menu screen.

The Country Code only takes effect after you have reloaded a disc.

Changing the frequency step

If you find that you can't tune into stations successfully, the frequency step may not be suitable for your country/region. Here's how to switch the setting:

1 Switch the system into standby then press ENTER.

2 Use the ←/→ buttons to select AM9k/ 10k .
On the front panel use I◄◄/◄◄ and ►►/►►I.

3 Press ENTER.
The current setting is shown in the display.

4 Use the ↑/↓ buttons to select AM 9k or AM 10k (AM 9k/FM 50kHz or AM10k/FM 100kHz).
On the front panel use I◄◄/◄◄ and ►►/►►I.

5 Press ENTER to confirm.

Setting the TV format

The default setting of this unit is **AUTO**, and unless you notice that the picture is distorted when playing some discs, you should leave it set to **AUTO**.

If you experience picture distortion with some discs, set the TV system to match your country or region.

1 Switch the system into standby then press ENTER.

2 Use the ←/→ buttons to select TV SYS.
On the front panel use I◄◄/◄◄ and ►►/►►I.

3 Press ENTER.
The current setting is shown in the display.

4 Use the ↑/↓ buttons to select AUTO, NTSC, or PAL.
On the front panel use I◄◄/◄◄ and ►►/►►I.

5 Press ENTER to confirm.

Resetting the unit

Use this procedure to reset all the system settings to the factory default.

1 Switch the player into standby.

2 Hold down the ■ (stop) button on the front panel and switch the player back on.

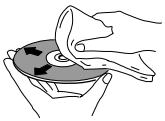
Using discs with this unit

Handling discs

When holding discs of any type, take care not to leave fingerprints, dirt or scratches on the disc surface. Hold the disc by its edge or by the center hole and edge.

Damaged or dirty discs can affect playback performance. Take care also not to scratch the label side of the disc. Although not as fragile as the recorded side, scratches can still result in a disc becoming unusable.

Should a disc become marked with fingerprints, dust, etc., clean using a soft, dry cloth, wiping the disc lightly from the center to the outside edge as shown in the diagram below.



Wipe lightly from the center of the disc using straight strokes.

Don't wipe the disc surface using circular strokes.

If necessary, use a cloth soaked in alcohol, or a commercially available CD/DVD cleaning kit to clean a disc more thoroughly. Never use benzine, thinner or other cleaning agents, including products designed for cleaning vinyl records.

Storing discs

Although CDs and DVD discs are more durable than vinyl records, you should still take care to handle and store discs correctly. When you're not using a disc, return it to its case and store upright. Avoid leaving discs in excessively cold, humid, or hot environments (including under direct sunlight).

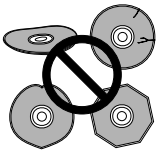
Don't glue paper or put stickers onto the disc, or use a pencil, ball-point pen or other sharp-tipped writing instrument. These could all damage the disc.

For more detailed care information see the instructions that come with discs.

Do not load more than one disc into the player at a time.

Discs to avoid

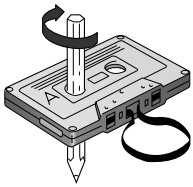
Discs spin at high speed inside the player. If you can see that a disc is cracked, chipped, warped, or otherwise damaged, don't risk using it in your player—you could end up damaging the unit.



This unit is designed for use with conventional, fully circular discs only. Never use shaped discs with this unit. Pioneer disclaims all liability arising in connection with the use of shaped discs.

Using cassette tapes

The tape of a cassette is quite easily damaged and loose tape can jam in the tape deck mechanism. If the tape has become unwound, use a pen or pencil to wind it back on to the spool.



When not using cassettes, always store in the case. Store cassettes away from magnetic fields, excessive heat, humidity, dust or oil.

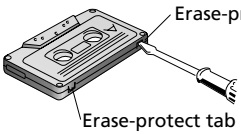
Before recording on a tape, wind the tape on past the leader tape (about the first 3 or 4 seconds of each side).

Tapes you should avoid

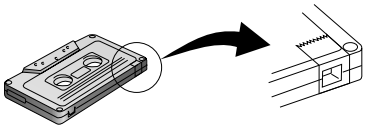
Since tapes longer than 90 minutes are so thin, they are more susceptible to jamming in the tape deck mechanism and other trouble such as irregular winding. Avoid using cassette tapes longer than 90 minutes.

Protecting your recordings

You can protect an important recording against accidental erasure by breaking the erase-protect tab(s) with a small screwdriver.



If you want to re-record on an erase-protected cassette, cover the space left by the broken tab with self-adhesive tape.



Note

- If you're using Type II (High/CrO2) tapes, make sure you don't also cover the tape-type detection holes.

Proper installation and maintenance of this unit

Hints on installation

We want you to enjoy using this unit for years to come, so please bear in mind the following points when choosing a suitable location for it:

Do...

✓ Use in a well-ventilated room.

✓ Place on a solid, flat, level surface, such as a table, shelf or stereo rack.

Don't...

✗ Use in a place exposed to high temperatures or humidity, including near radiators and other heat-generating appliances.

✗ Place on a window sill or other place where the player will be exposed to direct sunlight.

✗ Use in an excessively dusty or damp environment.

- ✗ Place directly on top of an amplifier, or other component in your stereo system that becomes hot in use.
- ✗ Use near a television or monitor as you may experience interference—especially if the television uses an indoor antenna.
- ✗ Use in a kitchen or other room where the player may be exposed to smoke or steam.
- ✗ Use on a thick rug or carpet, or cover with cloth—this may prevent proper cooling of the unit.
- ✗ Place on an unstable surface, or one that is not large enough to support all four of the unit's feet.

Cleaning the pickup lens

The DVD player's lens should not become dirty in normal use, but if for some reason it should malfunction due to dust or dirt, consult your nearest Pioneer-authorized service center. Although lens cleaners for CD players are commercially available, we do not recommend using them since some may damage the lens.

Problems with condensation

Condensation may form inside the player if it is brought into a warm room from outside, or if the temperature of the room rises quickly. Although the condensation won't damage the player, it may temporarily impair its performance. For this reason you should leave it to adjust to the warmer temperature for about an hour before switching on and using.

Moving the unit

If you need to move the unit, first press ⏻ **STANDBY/ON** on the front panel to turn the player off. Wait for **GOOD BYE** to disappear from the display, then unplug the power cord. Never lift or move the unit during playback—discs rotate at a high speed and may be damaged.

Note

- Unplugging the unit before **GOOD BYE** completely disappears from the display may cause the system to return to the factory settings.

Power cord caution

Handle the power cord by the plug part. Do not pull out the plug by tugging the cord, and never touch the power cord when your hands are wet, as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, or other object on the power cord or pinch the cord in any other way. Never make a knot in the cord or tie it with other cords. The power cords should be routed so that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electric shock. Check the power cord once in a while. If you find it damaged, ask your nearest Pioneer authorized service center or your dealer for a replacement.

Troubleshooting

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest Pioneer authorized service center or your dealer to carry out repair work.

Note

- If the unit does not operate normally due to external effects such as static electricity disconnect the power plug from the outlet and insert again to return to normal operating conditions.

General

Problem	Remedy
The power does not turn on.	• Connect the power plug to the wall outlet. • Disconnect the power plug from the outlet, and insert again. • Make sure the system cable is fully inserted.
The power suddenly switches off automatically and won't switch back on for a minute or so. Also, the standby indicator is blinking.	• If the speaker cables aren't connected properly, the system has a safety feature that shuts the power off automatically. Check the speaker wires to make sure they're connected properly. • The unit may be malfunctioning. Take it to your nearest Pioneer authorized service center or your dealer to carry out repair work. • Check that the system cable(s) are connected properly (page 11).
No sound is output when a function is selected.	• If you're using the line input, make sure the component is connected correctly (page 16). • Press **MUTE** on the remote control to turn muting off. • Adjust the **MASTER VOLUME**.
No image is output when watching discs.	• Make sure the TV is connected correctly (page 14).
No sound from surround or center speakers.	• Refer to *Setting the relative volume level of each channel* on page 36 to check the speaker levels. • Press the **CENTER SPEAKER** (**CENTER SP**) button to switch the center speaker on. • Connect the speakers properly (pages 12–14).
System does not output digital audio at 96kHz.	• As a copy-protection measure, some DVDs do not output 96kHz audio. In this case, even if 96 kHz is selected, the player automatically outputs the audio at 48 kHz. This is not a malfunction.
The 96kHz display doesn't light when playing a 96kHz source.	• If the 96kHz source is copy-protected the 96kHz display will not light.
The microphone suddenly can't be heard during DVD playback.	• Stop the disc, then restart playback.

Problem	Remedy
Can't operate the remote control.	• Replace the batteries (page 7). • Operate within 23 feet (7 m), 30° of the remote sensor on the front panel (page 8). • Remove the obstacle or operate from another position. • Avoid exposing the remote sensor on the front panel to direct light.
Feedback noise when mic is switched on.	• The mic is pointing toward the speakers. Keep the mic pointed away from the speakers. • The microphone level is set too high. Turn down the mic control level.

DVD/CD/Video CD player

Problem	Remedy
The disc is ejected automatically after loading.	• Clean the disc. • Align the disc properly in the disc guide. • If the region number on a DVD-video disc does not match the number on the player, the disc cannot be used (page 10). • Allow time for any condensation inside the player to evaporate. Avoid using the player near an air-conditioning unit.
Playback is not possible.	• Disc is loaded upside down. Reload the disc with the label side face up.
Picture playback stops and the operation buttons cannot be used.	• Press ■, then start playback again (►). • Switch the power off once, then on again using the front panel **STANDBY/ON** button.
Settings are canceled.	• When the power is cut due to power failure or by unplugging the power cord (see *Moving the unit*, page 84), settings will be canceled.
No picture/No color.	• Check that connections are correct and that plugs are inserted fully. • Check the instruction manual of the TV/monitor to make sure the TV/monitor settings are incorrect.
Screen is stretched or aspect does not change.	• The TV Screen setting is incorrect. Set the TV Screen option to match the TV/monitor you're using (page 74).
When recorded on a VCR or passed through an AV selector, there is disturbance in the playback picture.	• Due to the player's copy protection circuits, connection of this device through a VCR or an AV selector may prevent recording or cause picture problems. This is not a malfunction.

Problem	Remedy
Picture disturbance during playback or dark.	• This player is compatible with Macro-Vision System copy guard. Some discs include a copy prevention signal, and when this type of disc is played back, stripes etc., may appear on some sections of the picture depending on the TV. This is not a malfunction. • Discs respond differently to particular player functions. This may result in the screen becoming black for a brief instant or shaking slightly when the function is executed. These problems are largely due to differences between discs and disc content and are not malfunctions of this player.
Noticeable difference in DVD and CD volume.	• DVDs and CDs use different recording methods. This is not a malfunction.

Tuner

Problem	Remedy
Considerable noise in radio broadcasts.	• Tune into the correct frequency. • Connect the antenna (pages 15–16). • Fully extend the FM wire antenna, position for best reception, and secure to a wall. • Connect an outdoor FM antenna (page 16). • Adjust the direction and position for best reception. • Connect an additional internal or external AM antenna (page 16). • Turn off any other equipment that may be causing the noise or move it away from the unit. • Place the antenna farther away from any other equipment that may be causing the noise. • The tuning interval is incorrect for your country or region. Try switching the tuning interval (frequency step) (see page 81).
Auto tuning does not pick up some stations.	• The radio signal is weak. Auto tuning will only detect radio stations with a good signal. For more sensitive tuning, connect an outdoor antenna.
Sound is mono only.	• Check that the tuner is not set to FM mono (see page 51).

Tape deck

Problem	Remedy
Cannot record.	• Check that the cassette still has its erase-protect tabs intact, or that they are covered with self-adhesive tape (page 83).
Sound is muffled or previous recording is still audible underneath the new one.	• The tape heads may be dirty. Clean the tape heads using a head-cleaning cassette or cleaning kit. • Check that you're using a Type I (normal) tape. Do not use Type II (high/CrO2) or Type IV (metal) tapes. • If the recording was made with Dolby NR switched off, check that Dolby NR is also switched off during playback.
Sound is unnaturally bright	• If the recording was made with Dolby NR switched on, check that Dolby NR is also switched on during playback.
Music search does not work	• The spaces between songs may be too short for music search to work. • Make sure that the tape is playing when using music search—it will not work if the tape is stopped.
Recording made from the **LINE** input are distorted or very quiet.	• Set the line attenuator on or off as necessary (page 59).

Error Messages

Message	Desciption
KEY LOCK	• This message appears when the front panel buttons are pressed when the child lock feature is active. See Child Lock on page 71 for more on switching on/off the child lock.
CAN'T	• This message appears when it is not possible to output the test tone. Make sure the system is not muted, the headphones are not plugged in, and neither the **AUTO** or **STEREO** Surround mode is selected to output the test tone. See also *Setting the relative volume level of each channel* on page 36. • This message appears when you're recording something to the tape deck and try to choose a Surround/Advanced Surround listening mode or try to adjust the bass or treble.
96KHZ	• This message appears when the source sampling rate is 96kHz and you try to choose a Surround/Advanced Surround listening mode or try to adjust the bass or treble.

Screen sizes and disc formats

DVD-Video discs come in several different screen aspects, ranging from TV programs, which are generally 4:3, to CinemaScope widescreen movies, with an aspect ratio of up to about 7:3.

Televisions, too, come in different aspect ratios; 'standard' 4:3 and widescreen 16:9.

Widescreen TV users

If you have a widescreen TV, the **TV Screen** setting (page 74) of this player should be set to **16:9 (Wide)**.

When you watch discs recorded in 4:3 format, you can use the TV controls to select how the picture is presented. Your TV may offer various zoom and stretch options; see the instructions that came with your TV for details.

Please note that some movie aspect ratios are wider than 16:9, so even though you have a widescreen TV, these discs will still play in a 'letterbox' style with black bars at the top and bottom of the screen.

Standard TV users

If you have a standard TV, the **TV Screen** setting (page 74) of this player should be set to **4:3 (Letter Box)** or **4:3 (Pan&Scan)**, depending on which you prefer.

Set to **4:3 (Letter Box)**, widescreen discs are shown with black bars top and bottom.

Set to **4:3 (Pan&Scan)**, widescreen discs are shown with the left and right sides cropped. Although the picture looks larger, you don't actually see the whole picture.

Please note that many widescreen discs override the player's settings so that the disc is shown in letterbox format regardless of the setting.

Tip

- Using the **16:9 (Wide)** setting with a standard 4:3 TV, or either of the **4:3** settings with a widescreen TV, will result in a distorted picture.

Preset Code List

Manufacturer	Corde(s)
ACURA	644
ADMIRAL	631
AIWA	660
AKAI	632, 635, 642
AKURA	641
ALBA	607, 639, 641, 644
AMSTRAD	642, 644, 647
ANITECH	644
ASA	645
ASUKA	641
AUDIOGONIC	607, 636
BASIC LINE	641, 644
BAUR	631, 607, 642
BEKO	638
BEON	607
BLAUPUNKT	631
BLUE SKY	641
BLUE STAR	618
BPL	618
BRANDT	636
BTC	641
BUSH	607, 641, 642, 644, 647, 656
CASCADE	644
CATHAY	607
CENTURION	607
CGB	642
CIMLINE	644
CLARIVOX	607
CLATRONIC	638
CONDOR	638
CONTEC	644
CROSLEY	632
CROWN	638, 644
CRYSTAL	642
CYBERTRON	641
DAEWOO	607, 644, 656
DAINICHI	641
DANSAI	607
DAYTON	644
DECCA	607, 648
DIXI	607, 644
DUMONT	653
ELIN	607
ELITE	641
ELTA	644
EMERSON	642
ERRES	607
FERGUSON	607, 636, 651
FINLANDIA	635, 643, 655
FINLUX	632, 607, 645, 648, 653, 654, 655
FIRSTLINE	640, 644
FISHER	632, 635, 638, 645

Manufacturer	Corde(s)
FORMENTI	632, 607, 642
FRONTECH	631, 642, 646
FRONTECH /PROTECH	632
FUJITSU	648, 629
FUNAI	640, 646, 658
GBC	632, 642
GE	601, 608, 607, 610, 617, 602, 628, 618
GEC	607, 634, 648
GELOSO	632, 644
GENEXXA	631, 641
GOLDSTAR	610, 623, 621, 602, 607, 650
GOODMANS	607, 639, 647, 648, 656
GORENJE	638
GPM	641
GRAETZ	631, 642
GRANADA	607, 635, 642, 643, 648
GRADIENTE	630, 657
GRANDIN	618
GRUNDIG	631, 653
HANSEATIC	607, 642
HCM	618, 644
HINARI	607, 641, 644
HISAWA	618
HITACHI	631, 633, 634, 636, 642, 643, 654, 606, 610, 624, 625, 618
HUANYU	656
HYPSON	607, 618, 646
ICE	646, 647
IMPERIAL	638, 642
INDIANA	607
INGELEN	631
INTERFUNK	631, 632, 607, 642
INTERVISION	646, 649
ISUKAI	641
ITC	642
ITT	631, 632, 642
JEC	605
JVC	613, 623
KAISUI	618, 641, 644
KAPSCH	631
KENDO	642
KENNEDY	632, 642
KORPEL	607
KOYODA	644
LEYCO	607, 640, 646, 648
LIESENK&TTER	607
LOEWE	607
LUXOR	632, 642, 643
M-ELECTRONIC	631, 644, 645, 654, 655, 656, 607, 636, 651
MAGNADYNE	632, 649
MAGNAFON	649

Manufacturer	Corde(s)
MAGNAVOX	607, 610, 603, 612, 629
MANESTH	639, 646
MARANTZ	607
MARK	607
MATSUI	607, 639, 640, 642, 644, 647, 648
MCMICHAEL	634
MEDIATOR	607
MEMOREX	644
METZ	631
MINERVA	631, 653
MITSUBISHI	609, 610, 602, 621, 631
MULTITECH	644, 649
NEC	659
NECKERMANN	631, 607
NEI	607, 642
NIKKAI	605, 607, 641, 646, 648
NOBLIKO	649
NOKIA	632, 642, 652
NORDMENDE	632, 636, 651, 652
OCEANIC	631, 632, 642
ORION	632, 607, 639, 640
OSAKI	641, 646, 648
OSO	641
OSUME	648
OTTO VERSAND	631, 632, 607, 642
PALLADIUM	638
PANAMA	646
PANASONIC	631, 607, 608,642, 622
PATHO CINEMA	642
PAUSA	644
PHILCO	632, 642
PHILIPS	631, 607, 634, 656
PHOENIX	632
PHONOLA	607
PROFEX	642, 644
PROTECH	607, 642, 644, 646, 649
QUELLE	631, 632, 607, 642, 645, 653
R-LINE	607
RADIOLA	607
RADIOSHACK	610, 623, 621, 602
RBM	653
RCA	601, 610, 615, 616, 617, 618, 661, 662, 609
REDIFFUSION	632, 642
REX	631, 646
ROADSTAR	641, 644, 646
SABA	631, 636, 642, 651
SAISHO	639, 644, 646
SALORA	631, 632, 642, 643
SAMBERS	649
SAMSUNG	607, 638, 644, 646
SANYO	635, 645, 648, 621, 614
SBR	607, 634
SCHAUB LORENZ	642

Manufacturer	Corde(s)
SCHNEIDER	607, 641, 647
SEG	642, 646
SEI	632, 640, 649
SELECO	631, 642
SHARP	602, 619, 627
SIAREM	632, 649
SIEMENS	631
SINUDYNE	632, 639, 640, 649
SKANTIC	643
SOLAVOX	631
SONOKO	607, 644
SONOLOR	631, 635
SONTEC	607
SONY	604
SOUNDWAVE	607
STANDARD	641, 644
STERN	631
SUSUMU	641
SYSLINE	607
TANDY	631, 641, 648
TASHIKO	634
TATUNG	607, 648
TEC	642
TELEAVIA	636
TELEFUNKEN	636, 637, 652
TELETECH	644
TENSAI	640, 641
THOMSON	636, 651, 652, 663
THORN	631, 607, 642, 645, 648
TOMASHI	618
TOSHIBA	605, 602, 626, 621, 653
TOWADA	642
ULTRAVOX	632, 642, 649
UNIVERSUM	631, 607, 638, 642, 645, 646, 654, 655
VESTEL	607
VICTOR	613
VOXSON	631
WALTHAM	643
WATSON	607
WATT RADIO	632, 642, 649
WHITE WESTINGHOUSE	607
YOKO	607, 642, 646
ZENITH	603, 620
PIONEER	600, 631, 632, 607, 636, 642, 651

Note

- Please note that there are cases where the codes for the manufacturer in the list will not work for the model that you are using.

Language code list

Language (Language code letter), **Language code**

Japanese (ja), **1001**
English (en), **0514**
French (fr), **0618**
German (de), **0405**
Italian (it), **0920**
Spanish (es), **0519**
Dutch (nl), **1412**
Russian (ru), **1821**
Chinese (zh), **2608**
Korean (ko), **1115**
Greek (el), **0512**
Afar (aa), **0101**
Abkhazian (ab), **0102**
Afrikaans (af), **0106**
Amharic (am), **0113**
Arabic (ar), **0118**
Assamese (as), **0119**
Aymara (ay), **0125**
Azerbaijani (az), **0126**
Bashkir (ba), **0201**
Byelorussian (be), **0205**
Bulgarian (bg), **0207**
Bihari (bh), **0208**
Bislama (bi), **0209**
Bengali (bn), **0214**
Tibetan (bo), **0215**
Breton (br), **0218**
Catalan (ca), **0301**
Corsican (co), **0315**
Czech (cs), **0319**
Welsh (cy), **0325**
Danish (da), **0401**
Bhutani (dz), **0426**
Esperanto (eo), **0515**
Estonian (et), **0520**
Basque (eu), **0521**
Persian (fa), **0601**
Finnish (fi), **0609**
Fiji (fj), **0610**
Faroese (fo), **0615**
Frisian (fy), **0625**
Irish (ga), **0701**
Scots-Gaelic (gd), **0704**
Galician (gl), **0712**
Guarani (gn), **0714**
Gujarati (gu), **0721**
Hausa (ha), **0801**
Hindi (hi), **0809**
Croatian (hr), **0818**
Hungarian (hu), **0821**
Armenian (hy), **0825**
Interlingua (ia), **0901**
Interlingue (ie), **0905**
Inupiak (ik), **0911**
Indonesian (in), **0914**
Icelandic (is), **0919**
Hebrew (iw), **0923**
Yiddish (ji), **1009**
Javanese (jw), **1023**
Georgian (ka), **1101**
Kazakh (kk), **1111**
Greenlandic (kl), **1112**
Cambodian (km), **1113**
Kannada (kn), **1114**
Kashmiri (ks), **1119**
Kurdish (ku), **1121**
Kirghiz (ky), **1125**
Latin (la), **1201**
Lingala (ln), **1214**
Laothian (lo), **1215**
Lithuanian (lt), **1220**
Latvian (lv), **1222**
Malagasy (mg), **1307**
Maori (mi), **1309**
Macedonian (mk), **1311**
Malayalam (ml), **1312**
Mongolian (mn), **1314**
Moldavian (mo), **1315**
Marathi (mr), **1318**
Malay (ms), **1319**
Maltese (mt), **1320**
Burmese (my), **1325**
Nauru (na), **1401**
Nepali (ne), **1405**
Norwegian (no), **1415**
Occitan (oc), **1503**
Oromo (om), **1513**
Oriya (or), **1518**
Panjabi (pa), **1601**
Polish (pl), **1612**
Pashto, Pushto (ps), **1619**
Portuguese (pt), **1620**
Quechua (qu), **1721**
Rhaeto-Romance (rm), **1813**
Kirundi (rn), **1814**
Romanian (ro), **1815**
Kinyarwanda (rw), **1823**
Sanskrit (sa), **1901**
Sindhi (sd), **1904**
Sangho (sg), **1907**
Serbo-Croatian (sh), **1908**
Sinhalese (si), **1909**
Slovak (sk), **1911**
Slovenian (sl), **1912**
Samoan (sm), **1913**
Shona (sn), **1914**
Somali (so), **1915**
Albanian (sq), **1917**
Serbian (sr), **1918**
Siswati (ss), **1919**
Sesotho (st), **1920**
Sundanese (su), **1921**
Swedish (sv), **1922**
Swahili (sw), **1923**
Tamil (ta), **2001**
Telugu (te), **2005**
Tajik (tg), **2007**
Thai (th), **2008**
Tigrinya (ti), **2009**
Turkmen (tk), **2011**
Tagalog (tl), **2012**
Setswana (tn), **2014**
Tonga (to), **2015**
Turkish (tr), **2018**
Tsonga (ts), **2019**
Tatar (tt), **2020**
Twi (tw), **2023**
Ukrainian (uk), **2111**
Urdu (ur), **2118**
Uzbek (uz), **2126**
Vietnamese (vi), **2209**
Volapük (vo), **2215**
Wolof (wo), **2315**
Xhosa (xh), **2408**
Yoruba (yo), **2515**
Zulu (zu), **2621**

Country code list

Country, **Country code, Country code letter**

Argentina, **0118**, **ar**
Australia, **0121**, **au**
Austria, **0120**, **at**
Belgium, **0205**, **be**
Brazil, **0218**, **br**
Canada, **0301**, **ca**
Chile, **0312**, **cl**
China, **0314**, **cn**
Denmark, **0411**, **dk**
Finland, **0609**, **fi**
France, **0618**, **fr**
Germany, **0405**, **de**
Germany, **0405**, **de**
Hong Kong, **0811**, **hk**
India, **0914**, **in**
Indonesia, **0904**, **id**
Italy, **0920**, **it**
Japan, **1016**, **jp**
Korea, Republic of, **1118**, **kr**
Malaysia, **1325**, **my**
Mexico, **1324**, **mx**
Netherlands, **1412**, **nl**
New Zealand, **1426**, **nz**
Norway, **1415**, **no**
Pakistan, **1611**, **pk**
Philippines, **1608**, **ph**
Portugal, **1620**, **pt**
Russian Federation, **1821**, **ru**
Singapore, **1907**, **sg**
Spain, **0519**, **es**
Switzerland, **0308**, **ch**
Sweden, **1905**, **se**
Taiwan, **2023**, **tw**
Thailand, **2008**, **th**
United Kingdom, **0702**, **gb**
United States of America, **2119**, **us**

Glossary

Analog audio
An electrical signal that directly represents sound. Compare this to digital audio which can be an electrical signal, but is an indirect representation of sound. See also *Digital audio*.

Aspect ratio
The width of a TV screen relative to its height. Conventional (standard) TVs are 4:3 (in other words, the screen is almost square); widescreen models are 16:9 (the screen is almost twice as wide as it is high).

Digital audio
An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals (44,100 times a second for CD audio) by an analog-to-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also *Sampling frequency* and *Analog audio*.

Dolby Digital

Using a maximum of 5.1 channels of audio, this high quality surround system is used in many of the finer movie theaters around the world.

DTS

DTS stands for Digital Theater System. DTS is a surround system different from Dolby Digital that has become a popular surround sound format for movies.

Dynamic range
The difference between the quietest and loudest sounds possible in an audio signal (without distorting or getting lost in noise). Dolby Digital and DTS soundtracks are capable of a very wide dynamic range, delivering dramatic cinema-like effects.

File extension
A tag added to the end of a filename to indicate the type of file. For example, ".mp3" indicates an MP3 file.

MP3
MP3 (MPEG1 audio layer 3) is a compressed audio file format. Files are recognized by their file extension ".mp3" or ".MP3".

MPEG audio
An audio format used on Video CDs and some DVD discs. This unit can convert MPEG audio to PCM format for wider compatibility with digital recorders and AV amplifiers. See also *PCM*.

MPEG video
The video format used for Video CDs and DVDs. Video CD uses the older MPEG-1 standard, while DVD uses the newer and much better quality MPEG-2 standard.

PCM (Pulse Code Modulation)
The most common system of encoding digital audio, found on CDs and DAT. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. See also *Digital audio*.

PBC (PlayBack Control) (Video CD only)
A system of navigating a Video CD through on-screen menus recorded onto the disc. Especially good for discs that you would normally not watch from beginning to end all at once—karaoke discs, for example.

Regions (DVD-Video only)
These associate discs and players with particular areas of the world. This unit will only play discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

S1 S-video output
This S-video signal format includes aspect ratio information (4:3 or 16:9) within the video signal.

S2 S-video output
S2 is an enhanced version of S-video which, in addition to aspect ratio information, contains letterbox / pan & scan information. Widescreen TVs which are compatible with S2 S-video automatically switch to the appropriate mode according to the signal.

Sampling frequency
The rate at which sound is measured to be turned into digital audio data. The higher the rate, the better the sound quality, but the more digital information is generated. Standard CD audio has a sampling frequency of 44.1kHz, which means 44,100 samples (measurements) per second. See also *Digital audio*.

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc. Manufactured under license from Digital Theater Systems, Inc.

Specifications

Amplifier Section

X-EV51DVD model
Continuous Power Output:
Front ..... 80 W per channel (1kHz, 1.0 %, 8 Ω)
Center ..... 33 W (1kHz, 1.0 %, 8 Ω)
Surround ..... 33 W per channel (1kHz, 1.0 %, 8 Ω)

X-EV21DVD model
Continuous Power (RMS) ..... 80 W + 80 W (1 kHz, THD 10%, 8 Ω)

Disc section

Digital audio characteristics ..... DVD fs: 96 kHz, 24-bit
Type ..... DVD system, Video CD system and Compact Disc digital audio system
Frequency response ..... 4 Hz to 44 kHz
S/N ratio ..... 95 dB
Dynamic range ..... 95 dB
Total harmonic distortion ..... 0.005 %
Wow and Flutter ..... Limit of measurement (±0.001 % W.PEAK) or less (EIAJ)

Cassette deck section

Systems ..... 4 track, 2-channel stereo
Heads ..... Recording/playback head x 1
Erasing head x 1
Motor ..... DC servo motor x 1
Tape types ..... TYPE I (Normal)

FM tuner section

Frequency Range ..... 87.5 - 108MHz
Antenna ..... 75 Ω, unbalanced

AM tuner section

FrequencyRange
With 9 kHz step ..... 531 kHz to 1,602 kHz
With 10 kHz step ..... 530 kHz to 1,700 kHz
Antenna ..... Loop antenna

Miscellaneous

Power Requirements
Multi voltage model ..... AC 110-127/220-230/240 V (switchable), 50/60 Hz

Power Consumption

X-EV51DVD model
Round 2-pin AC plug model ..... 465 W
Flat blade 2-pin AC plug model ..... 175 W

X-EV21DVD model
Round 2-pin AC plug model ..... 540 W
Flat blade 2-pin AC plug model ..... 150 W

Power Consumption in standby mode ..... 1 W

Dimensions:
DVD Tuner Deck ..... 170 (W) x 292.5 (H) x 260 (D) mm
Power Amplifier ..... 170 (W) x 190 (H) x 254 (D) mm

Weight:
DVD Tuner Deck
XV-EV51 ..... 3.6 kg
XV-EV21 ..... 3.5 kg
Power Amplifier
M-EV51 ..... 5.3 kg
M-EV21 ..... 4.8 kg

Accessories (Stereo DVD Tuner Deck)

Operating instructions 2

Accessories (Stereo Power Amplifier)

Remote control 1
Power cord
Australian, New Zealand, Central and South American models 2
All other models 1
Power plug adapter (excluding Singapore, Hong Kong and Malaysian models) 1
Video cord 1
System cable (EV51DVD) 2
System cable (EV21DVD) 1
FM antenna 1
AM loop antenna 1
Dry cell batteries (AA/R6) 2

Speaker System

Front speakers (S-EV51V/S-EV21V)

Enclosure ..... Bass-reflex bookshelf type (magnetically shielded)
System ..... 16 cm 2-way system
Speakers:
Woofer ..... 16 cm cone type
Tweeter ..... 5.2 cm come type
Nominal impedance ..... 8 Ω
Frequency range ..... 40 Hz to 20 kHz
Music power (DIN) ..... 100 W
Dimensions ..... 200 (W) x 291 (H) x 253 (D) mm
Weight ..... 3.5 kg

Center speaker (S-EV51V/S-EV21V)

Enclosure ..... Closed-box bookshelf type (magnetically shielded)
System ..... 8.7 cm 1-way system
Speaker ..... 8.7 cm cone type
Nominal impedance:
S-EV51V ..... 8 Ω
S-EV21V ..... 32 Ω
Frequency range ..... 80 Hz to 20 kHz
Max. input:
S-EV51V ..... 33 W
S-EV21V ..... 80 W
Dimensions .... 170 (W) x 101.5 (H) x 99 (D) mm
Weight ..... 0.9 kg

Surround speakers (S-EV51V only)

Enclosure ..... Closed-box bookshelf type (magnetically shielded)
System ..... 8.7 cm 1-way system
Speaker ..... 8.7 cm cone type
Nominal impedance ..... 8 Ω
Frequency range ..... 80 Hz to 20 kHz
Max. input ..... 33 W
Dimensions ..... 200 (W) x 100 (H) x 103 (D) mm
Weight ..... 0.9 kg

Note

- Specifications and design subject to possible modification without notice, due to improvements.

This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period.

CONGRATULATIONS ON YOUR PURCHASE OF THIS FINE PIONEER PRODUCT.

Pioneer is on the leading edge of DVD research for consumer products and this unit incorporates the latest technological developments.

We are sure you will be fully satisfied with the DVD player.

Thank you for your support.

This product includes FontAvenue® fonts licensed by NEC corporation. FontAvenue is a registered trademark of NEC corporation.

Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

- This player is not suitable for commercial use.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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